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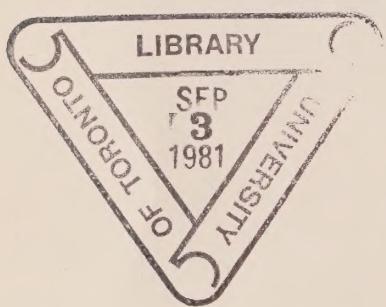
# MOTOR TRANSPORT TRAFFIC STATISTICS PROVINCE OF BRITISH COLUMBIA

Year ended June 30, 1956 (1955/56)



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**DOMINION BUREAU OF STATISTICS**  
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## INTRODUCTION

This report presents the results of quarterly surveys of Motor Transport Traffic conducted in the Province of British Columbia during the twelve month period July 1, 1955 to June 30, 1956. Two similar reports have been published previously, the first for the Province of Manitoba covering the twelve month period July 1, 1954 to June 30, 1955 and the second for Ontario covering the period July 1, 1955 to June 30, 1956.

As quarterly sample surveys are now being carried out in the other provinces, it is expected that

similar reports will follow until Motor Transport Traffic Statistics can be produced for all Canada on a calendar year basis.

These surveys have been made possible through the excellent cooperation received from the Government of British Columbia and, in particular, from the officials of the Motor Vehicle Branch and the Public Utilities Commission by allowing the Bureau access to the motor vehicle registration records from which quarterly samples of trucks and buses were selected.

### General Description of the Sample

As in other provinces, an overall sample of approximately 10 per cent of the trucks and intercity buses registered in British Columbia was selected for inclusion in the surveys conducted during the twelve month period ending June 30, 1956. To take into consideration seasonal variations in road transport operations, four surveys each of which consisted of a quarter of the annual sample or about 2½ per cent of motor vehicle registrations were conducted every three months. Each survey ran for a seven day period, Sunday through Saturday. In view of the fact that the number of motor vehicle registrations varies from day to day, each quarterly sample, of about 2,200 vehicles was selected immediately prior to the survey week in order to be representative of the registrations in force at the time. Registrations selected were coded so that a particular vehicle would not be chosen more than once during a particular licence year.

All trucks and buses registered in the province are represented except those vehicles which are not considered to be engaged in transportation services and buses which are utilized for scheduled urban transit services. The sample thus excludes such vehicles as tow trucks, hearses, ambulances, snowmobiles, farm tractors, cranes, bulldozers, cat tracks, diggers, graders and other road building equipment, military and other government owned vehicles, taxis and passenger automobiles and those vehicles which are not required to obtain a British Columbia licence under Section 18 of the British Columbia Motor Vehicle Act. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

The annual sample of ten per cent of all trucks registered in the province was considered sufficient to obtain reliable statistics but to stratify the sample by gross vehicle weight groups other considerations were important. For example, almost 41,000 vehicles or approximately 50 per cent of the provincial total have a gross vehicle weight of 5,000 pounds or less, whereas only about 3,000 trucks are in the over 30,000 pound group. More reliable results were obtained by concentrating higher sampling ra-

tios among the weight groups containing the largest vehicles, the smallest number of vehicles and the most diversified type of operations but it was also necessary to ensure that each weight group contained a sufficient number of vehicles to obtain reliable data for expansion purposes. The proportion selected by weight group strata varied, therefore, from 6 per cent in the lowest weight group to about 32 per cent in the heaviest with the result that an overall ten per cent ratio was made to represent approximately 21 per cent of the capacity of all vehicles registered.

The quarterly samples were also stratified by function or type of operation, as much as possible, at the time the selection was made. Trucks operated for compensation or gain either as contract or common carriers and engaged in either urban and/or intercity operations are shown as "for hire" vehicles. Trucks operated by business or fraternal organizations and individuals to transport their own goods are shown as "private" trucks. Private trucks are further divided into three categories: Intercity, Urban and Farm. Private intercity trucks are those which are operated by business and industry to distribute their own raw materials, finished goods and merchandise to other municipalities and rural areas. Private Urban trucks are those which are operated predominantly within the limits of metropolitan or urban areas. Farm trucks are vehicles owned and operated by farmers to transport their own farm produce, farm supplies and for service purposes.

As all common or for hire vehicles engaged in urban or intercity operations are required to obtain a motor carrier licence in addition to a motor vehicle licence, it was possible to readily identify them as for hire vehicles prior to the survey. For the same reason, it was also possible to identify some of the private intercity vehicles as well as farm trucks owned and operated by farmers exclusively for the transportation of their own farm produce and supplies. All other vehicles, for which a motor vehicle licence only was required, were assigned to the various classes on the basis of replies to the survey questionnaire.

### Expansion of the Survey Results

Since each quarterly sample was selected at random, the final distribution of each sample by gross vehicle weight groups and by function was used to provide population estimates as at the time of the sample selection. The results of each quarterly survey were then expanded to represent all trucks and intercity buses registered in the province, as well as the operations performed during the three month period. Generally speaking, this was achieved by multiplying the sample results by the inverse ratio of the sample to the population and by ratio of three months to one week. Expansion on the basis of the relative size of the sample and population varied with each gross vehicle weight classification

and with the breakdown of the gross sample into various categories of response. Since there are 13 weeks in a three month period, time expansion was achieved by multiplying by 13 in all cases.

The resultant expanded data for each of the four quarterly surveys were then added together to obtain provincial estimates for the twelve month period. Yearly operating averages such as average yearly mileage were calculated from the average number of vehicles registered during the twelve month period. All other operating ratios were obtained from the twelve month aggregates.

### Review of Survey Results

The statistical data obtained from these surveys have been divided into five parts or sections according to type of traffic. Section I contains estimates of the traffic performed by all British Columbia registered trucks both inside and outside the province. Section II presents estimates of traffic performed by all British Columbia registered trucks within the boundaries of the province only. Section III provides data relating to the operations of British Columbia registered trucks engaged in interprovincial and international traffic. Sections IV and V contain estimates of the traffic performed by British Columbia registered intercity buses on the same basis as that shown in Sections I and II.

In the Appendix, the average number of trucks registered in British Columbia during the twelve month period ending June 30, 1956 is shown by type of operation, by gross vehicle weight groups. The number of trucks registered averaged 80,722 of which 4,308 or 5 per cent were common or for hire carriers and 76,414 or 95 per cent were private. Eighteen per cent or 14,270 of the vehicles were classed as farm trucks, that is, trucks which were used mainly in the growing, servicing and marketing activities of the farmers: 27,647 or 34 per cent were private trucks operated predominantly within urban areas; and, 34,497 or 43 per cent were vehicles owned and operated by business, industry and individuals to transport and distribute their own goods on intercity routes and in rural areas.

In the tables presented herein, blanks appear in a number of places. This is due to the fact that no vehicles for these particular weight classifications were selected in any of the four samples which were drawn. It does not necessarily follow that there are no vehicles in the province belonging to these weight classifications.

**Section I:** The total number of miles travelled by all trucks registered in British Columbia, intraprovincially, interprovincially, internationally and extraprovincially (traffic performed entirely outside the province) during the year ending June 30, 1956 a-

mounted to 578 million, of which 93 million miles or 16 per cent were accumulated by for hire trucks and 282 million or 49 per cent by private intercity trucks. On the average trucks registered in the province travelled 7,200 miles during the year, 50.2 per cent of which were travelled with goods aboard and 49.8 per cent empty. The average distance each ton of goods was carried was 24.7 miles. For hire trucks travelled an average of 21,500 miles during the period as compared with an average of 8,200 miles for private intercity vehicles and carried goods 75.0 per cent of the time as against 46.4 per cent for private trucks. The distance each ton of goods was carried by for hire trucks averaged 50.7 miles and by private intercity trucks 19.4 miles.

The amount of fuel consumed by British Columbia registered trucks totalled 51.1 million imperial gallons of gasoline and 6.1 million gallons of diesel oil. As there were a small number of diesel trucks included in the survey, the estimate of the amount of diesel oil consumption is not a very reliable one and should therefore be used with caution. Miles per gallon of gasoline varied from 7.0 for the common carriers to 14.1 for farm vehicles. The average for all gasoline trucks amounted to 10.7 miles per gallon and for diesel trucks 5.2 miles per gallon.

The total volume of goods transported by all trucks registered in the province amounted to 46.2 million short tons. Farm trucks carried 1.2 million tons or 3 per cent of the total; urban trucks transported 9.1 million tons or 20 per cent; private intercity trucks 24.1 million tons or 52 per cent and for hire carriers transported 11.8 million tons or 25 per cent of the total volume. Ton miles performed aggregated 1,143 million, an average of 14,200 ton miles per vehicle. Although for hire carriers transported only 25 per cent of the total amount of goods carried, the average distance travelled was considerably greater than for the other three classes of vehicles with the result that the ton mile performance by for hire trucks averaged 138,500 as compared with 13,600 for private intercity vehicles and 2,300 for urban trucks. The average weight of goods carried

per one way trip was 4.0 tons, varying from a low of .7 tons for farm trucks to 8.6 tons for common carriers.

Total capacity ton miles, which was based on the actual mileage travelled during the year, amounted to 2,465 million, an average of 30,500 capacity ton miles per vehicle. The percentage of capacity utilized was 46.4 for all trucks and 55.3 per cent for the for hire group. Gross ton miles aggregated 2,930 million, an average of 36,300 gross ton miles per vehicle.

The total amount of revenue received by common or for hire carriers for all types of service amounted to 45 million dollars or \$10,600 per vehicle. Revenue per ton mile was 7.6 cents whereas revenue per total mile amounted to 49.1 cents.

**Section II:** This series presents the total amount of traffic performed by British Columbia registered trucks within the boundaries of the province. In addition to the intraprovincial traffic, it includes that portion of interprovincial and international traffic which was performed on British Columbia streets and highways.

The total number of miles travelled by British Columbia registered trucks within the province amounted to 537 million as compared with the grand total of 578 million miles travelled both inside and outside the province. The yearly mileage per truck averaged 6,700 miles as against 7,200. Gasoline consumption within the province totalled 49 million gallons and gasoline trucks averaged 10.7 miles per gallon.

The total volume of goods carried in British Columbia amounted to 45.9 million tons. Ton miles totalled 688 million as compared with 1,143 million inside and outside the province, and average ton miles per vehicle dropped to 8,500 from 14,200. Similarly, the average weight carried per vehicle amounted to 2.7 tons as compared with 4.0 tons and the average distance each ton of goods was carried within the province was 15.0 miles as against 24.7 miles. Total gross ton miles amounted to 2,159 million or an average of 26,700 gross ton miles per vehicle.

Total revenue received by common carriers for the transportation of goods on British Columbia streets and highways amounted to 32 million dollars, an average of \$7,500 per vehicle and 11.1 cents per ton mile.

**Section III:** This section presents some statistics on interprovincial and international traffic. Table 13 shows the total amount of goods transported out of British Columbia to other provinces and the United States as well as the volume of goods transported into British Columbia from other provinces and the United States. Of the total tonnage carried out of British Columbia, 152,000 tons or 44 per cent were destined for Alberta, 114,000 tons or 33 per cent were transported to the United States and

30,000 tons or 9 per cent to the Yukon Territory. The majority of the goods brought into British Columbia originated in these first two areas and in Ontario.

Table 14 shows interprovincial and international traffic by gross vehicle weight groups and by class of carrier. Of total traffic amounting to 449 million ton miles, almost 77 per cent or 346 million ton miles were performed by for hire carriers and almost 71 per cent of the total traffic was performed by trucks with a gross vehicle weight of 50,000 pounds or over.

Commodities carried by vehicles engaged in interprovincial and international traffic are shown in table 15. The total weight of goods transported was 664,000 tons of which 460,000 tons or 69 per cent was carried by for hire trucks. Revenues received by common carriers amounted to 15.5 million dollars, an average rate of 4.5 cents per ton mile, and each ton of goods was transported an average distance of 752 miles. Manufactures and miscellaneous items, totalling 284,000 tons, were the chief commodities transported by for hire carriers for which revenue of \$8.3 million was received. As the ton miles performed amounted to 188 million, the average rate per ton mile was 4.4 cents for this class of commodity.

Private vehicles engaged in interprovincial and international service transported 204,000 tons of goods; 82,000 tons or 40 per cent of which were manufactures and miscellaneous items.

**Section IV:** The total number of passengers carried by intercity buses licensed in British Columbia during the twelve month period July 1, 1955 to June 30, 1956, is estimated at 14.3 million. In transporting this number of passengers, buses travelled 14.4 million miles, an average of 39,900 miles per bus. The average distance each passenger was carried was 15.8 miles. The total number of passenger miles performed was 226 million and, for each mile travelled, buses carried an average of 16 passengers. Capacity seat miles performed amounted to 623 million indicating that the average capacity utilized was 36.3 per cent.

In travelling this number of miles, buses used 1.5 million gallons of gasoline and 450,000 gallons of diesel oil. Gasoline engined buses averaged 6.6 miles per gallon and those using diesel oil, 9.2 miles per gallon.

Total revenues received for the transportation of passengers amounted to almost 6 million dollars, an average of \$16,500 per bus, 41.5 cents per total mile or 2.6 cents per passenger mile.

**Section V:** Within the provincial boundaries of British Columbia, buses travelled a distance of 11.4 million miles using 1.4 million gallons of gasoline and 285,000 gallons of diesel oil. Estimated passenger miles performed totalled 175 million and percent

capacity utilized was 34.5 per cent. Revenues collected for mileage travelled in British Columbia amounted to 4.9 million dollars, an average of \$13,500 per bus at the rate of 2.8 cents per passenger mile.

**Appendix:** The appendix to this report provides an analysis of and the degree of response obtained by the use of the random sample method of collecting Motor Transport Traffic Statistics. For the four quarterly sample surveys conducted in the province over the twelve month period ending June 30, 1956, questionnaires were sent to the owners or operators of 9,212 trucks. Of this total, 2,523 were returned with the questions unanswered due to the fact that the

vehicles concerned were not operated during the specified week for a number of reasons such as "being repaired" and "operator ill". These questionnaires are, however, considered to be equivalent to being completed returns, as allowance for the average number of vehicles not in operation during the year must be made when expanding the survey results to obtain estimates of the total amount of traffic performed by all registered vehicles in the province. In view of this, the total number of satisfactory or completed questionnaires returned totalled 6,969 or 75.7 per cent of the total sent. In addition, 1,397 questionnaires were returned but they were incompletely filled out and therefore unusable. Non-response to the survey totalled 846 or 9.2 per cent.

**Section I. Motor Truck Traffic Performed By British Columbia Registered Trucks Inside and Outside The Province**  
**July 1, 1955 – June 30, 1956**  
**TABLE 1. Total Miles Travelled**

Type of operation <sup>1</sup>	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Total mileage travelled							
For hire.....	2,928	4,980	6,576	13,543	19,874	44,808	92,709
Private:				'000			
Intercity .....	120,253	60,452	13,231	24,677	38,280	25,234	282,127
Urban .....	77,483	46,254	5,999	4,860	4,648	1,467	140,711
Farm .....	41,619	17,300	1,413	1,737	587	247	62,903
Total .....	242,283	128,986	27,219	44,817	63,389	71,756	578,450
Average yearly mileage per truck							
For hire.....	11,600	10,200	10,100	15,400	18,100	47,400	21,500
Private:							
Intercity .....	7,400	7,400	7,000	8,000	11,500	13,800	8,200
Urban .....	5,000	5,100	3,900	6,200	7,000	6,400	5,100
Farm .....	4,700	4,200	2,500	3,200	3,000	11,800	4,400
Total .....	6,000	5,900	5,800	8,500	12,000	23,800	7,200
Average journey (Average distance each ton of goods was carried)							
For hire.....	18.8	9.4	21.6	19.6	18.0	121.7	50.7
Private:							
Intercity .....	18.0	13.8	18.0	11.0	17.7	27.9	19.4
Urban .....	14.8	8.8	7.3	10.3	4.7	4.4	6.9
Farm .....	15.2	12.4	12.1	14.7	22.3	7.3	13.1
Total .....	16.4	10.9	14.7	12.9	15.4	52.0	24.7
Percentage of total mileage travelled empty							
For hire.....	12.6	28.2	26.5	31.3	33.3	19.7	25.0
Private:							
Intercity .....	67.1	54.8	43.6	36.6	36.8	33.7	53.6
Urban .....	61.0	45.9	27.4	32.3	41.2	40.3	52.7
Farm .....	68.9	63.2	52.9	48.4	63.2	68.4	66.4
Total .....	64.8	51.7	36.4	35.0	36.3	22.4	49.8

1. For hire trucks – operated for compensation or gain anywhere in the province according to license. Private – Intercity trucks – owned and operated on intercity routes by business, industry and individuals to transport their own raw materials, finished goods and merchandise. Private – Urban trucks – operated primarily within urban areas. Private – Farm trucks – owned and operated by farmers primarily to transport farm produce, farm supplies and for service purposes.

**Section I. Motor Truck Traffic Performed By British Columbia Registered Trucks Inside and Outside the Province**  
**July 1, 1955 – June 30, 1956**  
**TABLE 2. Total Fuel Consumption**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gallons of gasoline consumed							
For hire.....	264	478	770	1,859	2,727	3,978	10,076
Private:				'000			
Intercity .....	7,699	4,950	1,374	3,067	5,166	3,316	25,572
Urban .....	5,006	3,724	646	563	761	294	10,994
Farm .....	2,702	1,311	135	191	83	42	4,464
Total .....	15,671	10,463	2,925	5,680	8,737	7,630	51,106
Total gallons of diesel oil consumed							
For hire.....	—	—	—	—	377	3,953	4,330
Private:							
Intercity .....	—	—	—	—	453	1,406	1,859
Urban .....	—	—	—	—	—	—	—
Farm .....	—	—	—	—	—	—	—
Total .....	—	—	—	—	830	5,359	6,189

## Section I. Motor Truck Traffic Performed By British Columbia Registered Trucks Inside and Outside the Province

July 1, 1955 — June 30, 1956

TABLE 2. Total Fuel Consumption — Concluded

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Miles per gallon of gasoline							
For hire .....	11.1	10.4	8.5	7.3	6.5	6.3	7.0
Private:							
Intercity .....	15.6	12.2	9.6	8.0	6.9	5.3	10.6
Urban .....	15.5	12.4	9.3	8.6	6.1	5.0	12.8
Farm .....	15.4	13.2	10.5	9.1	7.1	5.9	14.1
Total .....	15.5	12.3	9.3	7.9	6.7	5.8	10.7
Miles per gallon of diesel oil							
For hire .....	—	—	—	—	5.8	5.0	5.0
Private:							
Intercity .....	—	—	—	—	6.0	5.3	5.5
Urban .....	—	—	—	—	—	—	—
Farm .....	—	—	—	—	—	—	—
Total .....	—	—	—	—	5.9	5.1	5.2

## Section I. Motor Truck Traffic Performed By British Columbia Registered Trucks Inside and Outside the Province

July 1, 1955 — June 30, 1956

TABLE 3. Total Goods Carried and Ton Miles Performed

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total tons of goods carried							
							'000
For hire .....	44	500	680	1,764	5,080	3,703	11,771
Private:							
Intercity .....	584	1,089	1,257	4,422	9,396	7,363	24,111
Urban .....	379	1,348	1,151	1,433	3,326	1,486	9,123
Farm .....	340	272	118	198	51	202	1,181
Total .....	1,347	3,209	3,206	7,817	17,853	12,754	46,186
Average weight carried (Average weight of goods carried per one-way trip) <sup>1</sup>							
For hire .....	.3	1.3	3.0	3.7	6.9	12.5	8.6
Private:							
Intercity .....	.3	.5	3.0	3.1	6.9	12.3	3.6
Urban .....	.2	.5	1.9	4.5	5.7	7.5	.9
Farm .....	.4	.5	2.1	3.2	5.3	10.1	.7
Total .....	.3	.6	2.7	3.5	6.8	12.4	4.0
Total ton miles performed							
							'000
For hire .....	826	4,721	14,711	34,610	91,360	450,559	596,787
Private:							
Intercity .....	10,537	14,989	22,572	48,726	165,969	205,199	467,992
Urban .....	5,591	11,813	8,384	14,813	15,620	6,531	62,752
Farm .....	5,184	3,374	1,422	2,907	1,136	1,481	15,504
Total .....	22,138	34,897	47,089	101,056	274,085	663,770	1,143,035
Average ton miles per truck							
For hire .....	3,300	9,700	22,700	39,200	83,400	476,800	138,500
Private:							
Intercity .....	700	1,800	12,000	15,900	49,900	112,500	13,600
Urban .....	400	1,300	5,400	18,900	23,600	28,300	2,300
Farm .....	600	800	2,500	5,300	5,800	70,500	1,100
Total .....	500	1,600	10,100	19,100	52,000	219,700	14,200

1. Excludes vehicles making trips empty.

**Section I. Motor Truck Traffic Performed by British Columbia Registered Trucks Inside and Outside the Province**  
**July 1, 1955-June 30, 1956**

TABLE 4. Total Truck Capacity

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total capacity ton miles <sup>1</sup>							
'000							
For hire .....	2,104	11,509	33,219	81,120	177,223	773,282	1,078,457
Private:							
Intercity .....	89,240	79,290	61,722	148,094	327,459	381,911	1,087,716
Urban .....	57,152	56,397	21,167	31,854	36,968	18,848	222,386
Farm .....	31,778	21,322	6,842	9,223	4,368	3,392	76,925
<b>Total</b> .....	<b>180,274</b>	<b>168,518</b>	<b>122,950</b>	<b>270,291</b>	<b>546,018</b>	<b>1,177,433</b>	<b>2,465,484</b>
Capacity ton miles per truck							
For hire .....	8,300	23,700	51,300	92,000	161,800	818,300	250,300
Private:							
Intercity .....	5,500	9,700	32,800	48,200	98,500	209,400	31,500
Urban .....	3,700	6,200	13,600	40,600	55,900	81,600	8,000
Farm .....	3,600	5,200	12,000	16,800	22,400	161,500	5,400
<b>Total</b> .....	<b>4,400</b>	<b>7,700</b>	<b>26,400</b>	<b>51,100</b>	<b>103,500</b>	<b>389,700</b>	<b>30,500</b>
Percentage of capacity utilized							
For hire .....	39.3	41.0	44.3	42.7	51.6	58.3	55.3
Private:							
Intercity .....	11.8	18.9	36.6	32.9	50.7	53.7	43.0
Urban .....	9.8	20.9	39.6	46.5	42.3	34.7	28.2
Farm .....	16.3	15.8	20.8	31.5	26.0	43.7	20.1
<b>Total</b> .....	<b>12.3</b>	<b>20.7</b>	<b>38.3</b>	<b>37.4</b>	<b>50.2</b>	<b>56.4</b>	<b>46.4</b>

1. Capacity ton miles was determined by multiplying the actual total number of miles travelled by the difference between gross vehicle weight and estimated tare weight.

**Section I. Motor Truck Traffic Performed by British Columbia Registered Trucks Inside and Outside the Province**  
**July 1, 1955-June 30, 1956**

TABLE 5. Total Gross Ton Miles Performed<sup>1</sup>

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gross ton miles							
'000							
For hire .....	5,828	16,282	37,618	86,211	185,689	864,772	1,196,400
Private:							
Intercity .....	199,913	133,354	64,489	141,385	342,325	384,660	1,266,126
Urban .....	121,600	103,556	27,511	33,673	37,552	17,015	340,907
Farm .....	69,094	36,628	5,642	9,043	3,638	3,013	127,058
<b>Total</b> .....	<b>396,435</b>	<b>289,820</b>	<b>135,260</b>	<b>270,312</b>	<b>569,204</b>	<b>1,269,460</b>	<b>2,930,491</b>
Average gross ton miles per truck							
For hire .....	23,100	33,500	58,100	97,700	169,600	915,100	277,700
Private:							
Intercity .....	12,300	16,300	34,300	46,000	103,000	210,900	36,700
Urban .....	7,900	11,400	17,700	43,000	56,800	73,700	12,300
Farm .....	7,800	8,900	9,900	16,500	18,700	143,500	8,900
<b>Total</b> .....	<b>9,800</b>	<b>13,300</b>	<b>29,100</b>	<b>51,100</b>	<b>107,900</b>	<b>420,200</b>	<b>36,300</b>

1. Gross ton miles performed is determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total mileage travelled.

**Section I. Motor Truck Traffic Performed by British Columbia Registered Trucks Inside and Outside the Province**  
**July 1, 1955-June 30, 1956**

**TABLE 6. Total Revenue From Operations Performed by For Hire Carriers**

	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total revenue.....	\$ 391,000	1,719,000	3,256,000	5,174,000	10,323,000	24,625,000	45,488,000
Revenue per ton mile .....	¢ 47.3	36.4	22.1	14.9	11.3	5.5	7.6
Revenue per mile (Total mileage travelled)¢	13.4	34.5	50.0	38.2	51.9	55.0	49.1
Average yearly revenue per truck .....	\$ 1,600	3,500	5,000	5,900	9,400	26,100	10,600

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**July 1, 1955-June 30, 1956**

**TABLE 7. Miles Travelled Within the Province**

Type of operation	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Total mileage travelled							
							'000
For hire .....	2,928	4,980	6,070	12,669	17,938	21,959	66,544
Private:							
Intercity .....	119,815	60,080	12,675	23,150	33,327	18,246	267,293
Urban .....	77,483	46,254	5,999	4,860	4,648	1,467	140,711
Farm .....	41,619	17,300	1,413	1,737	587	247	62,903
<b>Total</b> .....	<b>241,845</b>	<b>128,614</b>	<b>26,157</b>	<b>42,416</b>	<b>56,500</b>	<b>41,919</b>	<b>537,451</b>
Average yearly mileage per truck							
For hire .....	11,600	10,200	9,400	14,400	16,400	23,200	15,400
Private:							
Intercity .....	7,400	7,300	6,700	7,500	10,000	10,000	7,700
Urban .....	5,000	5,100	3,900	6,200	7,000	6,400	5,100
Farm .....	4,700	4,200	2,500	3,200	3,000	11,800	4,400
<b>Total</b> .....	<b>5,900</b>	<b>5,900</b>	<b>5,600</b>	<b>8,000</b>	<b>10,700</b>	<b>13,900</b>	<b>6,700</b>
Average journey (Average distance each ton of goods was carried)							
For hire .....	18.8	9.4	17.9	15.3	13.8	50.4	25.1
Private:							
Intercity .....	18.0	13.7	17.2	10.5	11.3	16.5	13.3
Urban .....	14.8	8.8	7.3	10.3	4.7	4.4	6.9
Farm .....	15.2	12.4	12.1	14.7	22.3	7.3	13.1
<b>Total</b> .....	<b>16.4</b>	<b>10.8</b>	<b>13.6</b>	<b>11.7</b>	<b>10.8</b>	<b>24.3</b>	<b>15.0</b>
Percentage of total mileage travelled empty							
For hire .....	12.6	28.2	27.9	33.5	35.2	28.6	30.5
Private:							
Intercity .....	67.0	54.8	43.4	38.3	40.6	39.2	55.5
Urban .....	61.0	45.9	27.4	32.3	41.2	40.3	52.7
Farm .....	68.9	63.2	52.9	48.4	63.2	68.4	66.4
<b>Total</b> .....	<b>64.8</b>	<b>51.7</b>	<b>36.6</b>	<b>36.6</b>	<b>43.8</b>	<b>33.8</b>	<b>53.4</b>

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**July 1, 1955-June 30, 1956**

TABLE 8. Fuel Consumption Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gallons of gasoline consumed							
'000							
For hire.....	264	478	705	1,696	2,661	2,940	8,744
Private:							
Intercity .....	7,683	4,932	1,325	2,999	4,896	3,222	25,057
Urban.....	5,006	3,724	646	563	761	294	10,994
Farm .....	2,702	1,311	135	191	83	42	4,464
<b>Total</b> .....	<b>15,655</b>	<b>10,445</b>	<b>2,811</b>	<b>5,449</b>	<b>8,401</b>	<b>6,498</b>	<b>49,259</b>
Total gallons of diesel oil consumed							
'000							
For hire.....	—	—	—	—	185	1,030	1,215
Private:							
Intercity .....	—	—	—	—	61	449	510
Urban.....	—	—	—	—	—	—	—
Farm .....	—	—	—	—	—	—	—
<b>Total</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>246</b>	<b>1,479</b>	<b>1,725</b>
Miles per gallon of gasoline							
For hire.....	11.1	10.4	8.6	7.5	6.4	5.6	6.9
Private:							
Intercity .....	15.6	12.2	9.6	7.7	6.7	5.0	10.6
Urban.....	15.5	12.4	9.3	8.6	6.1	5.0	12.8
Farm .....	15.4	13.2	10.5	9.1	7.1	5.9	14.1
<b>Total</b> .....	<b>15.5</b>	<b>12.3</b>	<b>9.3</b>	<b>7.8</b>	<b>6.6</b>	<b>5.3</b>	<b>10.7</b>
Miles per gallon of diesel oil							
For hire.....	—	—	—	—	5.1	5.3	5.3
Private:							
Intercity .....	—	—	—	—	7.4	5.2	5.4
Urban.....	—	—	—	—	—	—	—
Farm .....	—	—	—	—	—	—	—
<b>Total</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>5.7</b>	<b>5.1</b>	<b>5.2</b>

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**July 1, 1955-June 30, 1956**

TABLE 9. Goods Carried and Ton Miles Performed Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total tons of goods carried							
'000							
For hire.....	44	500	680	1,764	5,073	3,486	11,547
Private:							
Intercity .....	584	1,089	1,257	4,406	9,372	7,320	24,028
Urban.....	379	1,348	1,151	1,433	3,326	1,486	9,123
Farm .....	340	272	118	198	51	202	1,181
<b>Total</b> .....	<b>1,347</b>	<b>3,209</b>	<b>3,206</b>	<b>7,801</b>	<b>17,822</b>	<b>12,494</b>	<b>45,879</b>
Average weight carried (Average weight of goods carried per one-way trip) <sup>1</sup>							
For hire.....	.3	1.3	2.8	3.2	6.0	11.2	6.3
Private:							
Intercity .....	.3	.5	3.0	3.2	5.4	10.9	2.7
Urban.....	.2	.5	1.9	4.5	5.7	7.5	.9
Farm .....	.4	.5	2.1	3.2	5.3	10.1	.7
<b>Total</b> .....	<b>.3</b>	<b>.6</b>	<b>2.6</b>	<b>3.4</b>	<b>5.6</b>	<b>10.9</b>	<b>2.7</b>

1. Excludes vehicles making trips empty.

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**July 1, 1955-June 30, 1956**

**TABLE 9. Goods Carried and Ton Miles Performed Within the Province — Concluded**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total ton miles performed							
'000							
For hire .....	826	4,721	12,196	27,009	69,846	175,591	290,189
Private:							
Intercity .....	10,517	14,885	21,650	46,170	106,184	120,534	319,940
Urban .....	5,591	11,813	8,384	14,813	15,620	6,531	62,752
Farm .....	5,184	3,374	1,422	2,907	1,136	1,481	15,504
<b>Total</b> .....	<b>22,118</b>	<b>34,793</b>	<b>43,652</b>	<b>90,899</b>	<b>192,786</b>	<b>304,137</b>	<b>688,385</b>
Average ton miles per truck							
For hire .....	3,300	9,700	18,800	30,600	63,800	185,800	67,400
Private:							
Intercity .....	600	1,800	11,500	15,000	31,900	66,100	9,300
Urban .....	400	1,300	5,400	18,900	23,600	28,300	2,300
Farm .....	600	800	2,500	5,300	5,800	70,500	1,100
<b>Total</b> .....	<b>500</b>	<b>1,600</b>	<b>9,400</b>	<b>17,200</b>	<b>36,600</b>	<b>100,700</b>	<b>8,500</b>

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**July 1, 1955-June 30, 1956**

**TABLE 10. Truck Capacity Within the Province**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total capacity ton miles <sup>1</sup>							
'000							
For hire .....	2,104	11,508	30,471	73,519	150,327	367,164	635,093
Private:							
Intercity .....	88,881	78,922	58,188	138,698	262,503	279,131	906,323
Urban .....	57,152	56,397	21,167	31,854	36,968	18,848	222,386
Farm .....	31,778	21,322	6,842	9,223	4,368	3,392	76,925
<b>Total</b> .....	<b>179,915</b>	<b>168,149</b>	<b>116,668</b>	<b>253,294</b>	<b>454,166</b>	<b>668,535</b>	<b>1,840,727</b>
Capacity ton miles per truck							
For hire .....	8,300	23,700	47,000	83,400	137,300	388,500	147,400
Private:							
Intercity .....	5,500	9,600	31,000	45,200	79,000	153,000	26,300
Urban .....	3,700	6,200	13,600	40,600	55,900	81,600	8,000
Farm .....	3,600	5,200	12,000	16,800	22,400	161,500	5,400
<b>Total</b> .....	<b>4,400</b>	<b>7,700</b>	<b>25,100</b>	<b>47,900</b>	<b>86,100</b>	<b>221,300</b>	<b>22,800</b>
Percentage of capacity utilized							
For hire .....	39.3	41.0	40.0	36.7	46.5	47.8	45.7
Private:							
Intercity .....	11.8	18.9	37.2	33.3	40.5	43.2	35.3
Urban .....	9.8	20.9	39.6	46.5	42.3	34.7	28.2
Farm .....	16.3	15.8	20.8	31.5	26.0	43.7	20.1
<b>Total</b> .....	<b>12.3</b>	<b>20.7</b>	<b>37.4</b>	<b>35.9</b>	<b>42.4</b>	<b>45.5</b>	<b>37.4</b>

1. Capacity ton miles was determined by multiplying the actual number of miles travelled within the province by the difference between gross vehicle weight and estimated tare weight.

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**July 1, 1955-June 30, 1956**

TABLE 11. Gross Ton Miles Performed Within the Province<sup>1</sup>

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gross ton miles							
'000							
For hire .....	5,828	16,282	33,391	75,070	153,344	375,929	659,844
Private:							
Intercity .....	199,168	132,619	61,735	132,980	256,528	247,933	1,030,963
Urban .....	121,600	103,556	27,511	33,673	37,552	17,015	340,907
Farm .....	69,094	36,628	5,642	9,043	3,638	3,013	127,058
Total .....	395,690	289,085	128,279	250,766	451,062	643,890	2,158,772
Average gross ton miles per truck							
For hire .....	23,100	33,500	51,500	85,100	140,000	397,800	153,200
Private:							
Intercity .....	12,300	16,200	32,900	43,300	77,200	135,900	29,900
Urban .....	7,900	11,400	17,700	43,000	56,800	73,700	12,300
Farm .....	7,800	8,900	9,900	16,500	18,700	143,500	8,900
Total .....	9,700	13,200	27,600	47,400	85,500	213,100	26,700

1. Gross ton miles performed is determined by adding to the total ton miles performed the weight of vehicle empty (tare) multiplied by total mileage travelled.

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**July 1, 1955-June 30, 1956**

TABLE 12. Revenue From Operations Performed by For Hire Carriers Within the Province

	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total revenue .....	\$ 391,000	1,719,000	2,761,000	4,734,000	9,358,000	13,334,000	32,297,000
Revenue per ton mile .....	¢ 47.3	36.4	22.6	17.5	13.4	7.6	11.1
Revenue per mile (total mileage travelled) ..	¢ 13.4	34.5	45.5	37.4	52.2	60.7	48.5
Average yearly revenue per truck .....	\$ 1,600	3,500	4,300	5,400	8,500	14,100	7,500

**Section III. Motor Truck Traffic Performed by British Columbia Registered Trucks Engaged in Interprovincial and International Traffic July 1, 1955-June 30, 1956**

TABLE 13. Total Tons of Goods Carried Into and Out of British Columbia, by Origin and Destination, by Type of Operation

Origin or destination	For hire trucks	Private Intercity trucks	All trucks	
			'000 tons	'000 tons
To Ontario .....			20	9
From Ontario .....			17	11
To Manitoba .....			19	—
From Manitoba .....			19	—
To Alberta .....			91	61
From Alberta .....			166	36
To Yukon Territory .....			22	8
From Yukon Territory .....			3	6
To U.S.A. .....			82	32
From U.S.A. .....			21	41
<b>Grand total .....</b>	<b>To</b>		<b>234</b>	<b>110</b>
	<b>From</b>		<b>226</b>	<b>94</b>
			<b>460</b>	<b>204</b>
				<b>664</b>

**Section III. Motor Truck Traffic Performed by British Columbia Registered Trucks Engaged in Interprovincial and International Traffic July 1, 1955-June 30, 1956**

**TABLE 14. Interprovincial and International Traffic by Gross Vehicle Weight Groups**

Gross vehicle weight	For hire trucks			
	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per trip
	'000	'000	Tons	Miles
20,000 lbs. or less .....	1,011	7,709	8	995
20,001-25,000 lbs. ....	175	1,234	7	1,657
25,001-30,000 " .....	988	10,505	11	936
30,001-35,000 " .....	775	4,159	5	1,795
35,001-40,000 " .....	2,886	26,618	9	381
40,001-45,000 " .....	2,393	24,750	10	599
45,001-50,000 " .....	—	—	—	—
50,001 and over .....	18,325	270,997	15	720
<b>Total .....</b>	<b>26,553</b>	<b>345,972</b>	<b>13</b>	<b>674</b>
Private intercity trucks				
	'000	'000	Tons	Miles
20,000 lbs. or less .....	278	1,234	4	120
20,001-25,000 lbs. ....	103	620	6	180
25,001-30,000 " .....	223	2,241	10	250
30,001-35,000 " .....	72	722	10	378
35,001-40,000 " .....	656	8,376	13	350
40,001-45,000 " .....	984	14,381	15	318
45,001-50,000 " .....	1,746	26,252	15	715
50,001 and over .....	3,279	48,968	15	501
<b>Total .....</b>	<b>7,341</b>	<b>102,794</b>	<b>14</b>	<b>351</b>

**Section III. Motor Truck Traffic Performed by British Columbia Registered Trucks Engaged in Interprovincial and International Traffic July 1, 1955-June 30, 1956**

**TABLE 15. Commodities Carried by British Columbia Registered Trucks in Interprovincial and International Traffic**

Commodity classification	For hire trucks						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	Tons	Miles	\$'000	¢
Agricultural products.....	23	1,173	18,392	16	800	724	3.94
Animal and animal products .....	56	3,448	51,946	15	928	1,833	3.53
Mine products .....	—	—	—	—	—	—	—
Forest products .....	10	48	593	12	59	48	8.10
Manufacturing and miscellaneous .....	284	15,219	187,565	12	660	8,324	4.44
N.O.S. general freight .....	87	6,665	87,476	13	1,005	4,525	5.17
<b>Total .....</b>	<b>460</b>	<b>26,553</b>	<b>345,972</b>	<b>13</b>	<b>752</b>	<b>15,454</b>	<b>4.47</b>
Private intercity trucks							
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	Tons	Miles		
Agricultural products.....	18	361	4,509	12	251		
Animal and animal products .....	11	102	901	9	82		
Mine products .....	3	33	257	8	86		
Forest products .....	54	662	9,094	14	168		
Manufacturing and miscellaneous .....	82	2,342	27,515	12	336		
N.O.S. general freight .....	36	3,841	60,518	16	1,681		
<b>Total .....</b>	<b>204</b>	<b>7,341</b>	<b>102,794</b>	<b>14</b>	<b>504</b>		

**Section IV. Motor Bus Traffic Performed by British Columbia Registered Buses Inside and Outside the Province**  
**July 1, 1955 — June 30, 1956**

**TABLE 16. Mileage, Fuel, Passengers and Passenger Miles, Capacity and Revenue**

	Passenger seating capacity				
	0-19	20-29	30-39	40 & over	Total
<b>Mileage:</b>					
Total mileage travelled .....	94,000	1,284,000	7,028,000	5,955,000	14,361,000
Average yearly mileage per bus .....	5,900	20,100	51,700	38,200	39,900
Average journey (Average distance per passenger) .....	58.3	4.5	36.4	11.5	15.8
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	9,000	168,000	597,000	767,000	1,541,000
Total gallons of diesel oil consumed .....	—	—	289,000	161,000	450,000
Miles per gallon of gasoline .....	10.7	7.7	7.4	5.8	6.6
Miles per gallon of diesel oil .....	—	—	9.1	9.3	9.2
<b>Passengers and passenger miles:</b>					
Total number of passengers carried .....	24,000	2,315,000	3,055,000	8,953,000	14,347,000
Total number of passenger miles .....	1,400,000	10,528,000	111,197,000	103,243,000	226,368,000
Average number of passengers carried per mile .....	15.0	8.2	15.8	17.3	15.8
<b>Capacity:</b>					
Total capacity seat miles .....	1,591,000	34,228,000	260,978,000	326,317,000	623,114,000
Percentage of capacity utilized .....	88.0	30.8	42.6	31.6	36.3
<b>Revenue:</b>					
Total passenger revenue .....	\$ 35,000	374,000	2,435,000	3,111,000	5,955,000
Revenue per mile (total mileage travelled) .....	¢ 37.2	29.1	34.7	52.2	41.5
Revenue per passenger mile .....	¢ 2.5	3.6	2.2	3.0	2.6
Revenue per bus .....	\$ 2,200	5,800	17,900	19,900	16,500

**Section V. Motor Bus Traffic Performed by British Columbia Registered Buses Within the Province**  
**July 1, 1955 — June 30, 1956**

**TABLE 17. Mileage, Fuel, Passengers and Passenger Miles, Capacity and Revenue**

	Passenger seating capacity				
	0-19	20-29	30-39	40 & over	Total
<b>Mileage:</b>					
Total mileage travelled .....	94,000	1,284,000	4,303,000	5,768,000	11,449,000
Average yearly mileage per bus .....	5,900	20,100	31,600	37,000	31,800
Average journey (Average distance per passenger) .....	58.3	4.5	24.1	11.2	12.6
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	9,000	168,000	469,000	746,000	1,392,000
Total gallons of diesel oil consumed .....	—	—	124,000	161,000	285,000
Miles per gallon of gasoline .....	10.7	7.7	6.7	5.7	6.3
Miles per gallon of diesel oil .....	—	—	9.4	9.3	9.4
<b>Passengers and passenger miles:</b>					
Total number of passengers carried .....	24,000	2,315,000	2,643,000	8,903,000	13,885,000
Total number of passenger miles .....	1,400,000	10,528,000	63,779,000	99,692,000	175,399,000
Average number of passengers carried per mile .....	15.0	8.2	14.8	17.3	15.3
<b>Capacity:</b>					
Total capacity seat miles .....	1,591,000	34,228,000	155,974,000	316,806,000	508,599,000
Percentage of capacity utilized .....	88.0	30.8	40.9	31.5	34.5
<b>Revenue:</b>					
Total passenger revenue .....	\$ 35,000	374,000	1,415,000	3,033,000	4,857,000
Revenue per mile (total mileage travelled) .....	¢ 37.2	29.1	32.9	52.6	42.4
Revenue per passenger mile .....	¢ 2.5	3.6	2.2	3.0	2.8
Revenue per bus .....	\$ 2,200	5,800	10,400	19,400	13,500

**APPENDIX I**  
**Sampling Results**

Type of operation	Gross vehicle weight groups							Total
	0-2 1/2 tons 0-5,000 lbs.	2 1/2-5 tons 5,001-10,000 lbs.	5-7 1/2 tons 10,001-15,000 lbs.	7 1/2-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over		
Estimated average British Columbia truck population July 1, 1955-June 30, 1956								
For hire.....	252	486	648	882	1,095	945	4,308	
Private:								
Intercity .....	16,199	8,200	1,879	3,071	3,324	1,824	34,497	
Urban .....	15,366	9,048	1,557	784	661	231	27,647	
Farm .....	8,836	4,097	572	549	195	21	14,270	
<b>Total .....</b>	<b>40,653</b>	<b>21,831</b>	<b>4,656</b>	<b>5,286</b>	<b>5,275</b>	<b>3,021</b>	<b>80,722</b>	
Total No. of trucks selected in samples								
For hire .....	13	53	108	140	348	299	961	
Private:								
Intercity .....	1,011	902	304	484	1,037	584	4,322	
Urban .....	1,040	997	253	127	188	75	2,680	
Farm .....	548	452	93	87	63	6	1,249	
<b>Total .....</b>	<b>2,612</b>	<b>2,404</b>	<b>758</b>	<b>838</b>	<b>1,636</b>	<b>964</b>	<b>9,212</b>	
No. of questionnaires returned complete								
For hire .....	8	36	63	95	199	178	579	
Private:								
Intercity .....	511	471	130	232	503	229	2,076	
Urban .....	481	450	82	51	70	25	1,159	
Farm .....	298	232	36	46	17	3	632	
<b>Total .....</b>	<b>1,298</b>	<b>1,189</b>	<b>311</b>	<b>424</b>	<b>789</b>	<b>435</b>	<b>4,446</b>	
No. of sampled trucks reported not in use during survey week								
For hire .....	2	8	24	29	64	51	178	
Private:								
Intercity .....	215	225	112	160	311	221	1,244	
Urban .....	235	273	100	48	63	29	748	
Farm .....	119	124	43	33	31	3	353	
<b>Total .....</b>	<b>571</b>	<b>630</b>	<b>279</b>	<b>270</b>	<b>469</b>	<b>304</b>	<b>2,523</b>	
No. of questionnaires returned incomplete and unusable								
For hire .....	3	5	10	10	51	41	120	
Private:								
Intercity .....	194	132	38	62	133	76	635	
Urban .....	213	159	41	18	30	12	473	
Farm .....	90	56	11	3	9	—	169	
<b>Total .....</b>	<b>500</b>	<b>352</b>	<b>100</b>	<b>93</b>	<b>223</b>	<b>129</b>	<b>1,397</b>	
No. of questionnaires not returned (non respondents)								
For hire .....	—	4	11	6	34	29	84	
Private:								
Intercity .....	91	74	24	30	90	58	367	
Urban .....	111	115	30	10	25	9	300	
Farm .....	41	40	3	5	6	—	95	
<b>Total .....</b>	<b>243</b>	<b>233</b>	<b>68</b>	<b>51</b>	<b>135</b>	<b>96</b>	<b>846</b>	





Canada. Statistics, Bureau of



# MOTOR TRANSPORT TRAFFIC STATISTICS

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## PROVINCE OF BRITISH COLUMBIA

1956

*Published by Authority of*

The Honourable Gordon Churchill, Minister of Trade and Commerce

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## INTRODUCTION

This report presents the results of the annual motor transport traffic survey conducted in the province of British Columbia at three month intervals during the period January 1, 1956 to December 31, 1956. The first report for this province provided similar statistics covering the period July 1, 1955 to June 30, 1956.

These annual surveys have been made possible through the excellent co-operation received from the trucking industry and in particular from the officials of the Government of British Columbia, in allowing the Dominion Bureau of Statistics access to the motor vehicle registration records from which samples of trucks and buses were selected each quarter.

### General Description of the Sample

An overall annual sample of approximately 10 per cent of all trucks and intercity buses registered in British Columbia was selected for this survey. To allow for seasonal variations in motor transport traffic and to ensure that the sample vehicles represented current registrations in force, the annual survey was conducted in four quarterly segments with approximately 2½ per cent of total registrations sampled each quarter. Vehicles selected were coded so that a particular vehicle would not be chosen more than once during any licence year. Each quarterly segment of the survey ran for a seven day period, Sunday through Saturday.

All trucks and buses registered in the province are represented except those vehicles considered not to be engaged in transportation services, buses utilized for scheduled urban transit services and vehicles not required to obtain a British Columbia licence under Section 18 of the British Columbia Motor Vehicle Act. Trailers as such were excluded from the sample but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

While an annual sample of 10 per cent of all trucks registered in the province was considered sufficient to obtain reliable statistics, greater accuracy was achieved by stratifying the sample by weight groups. For example, almost 41,000 vehicles or approximately 51 per cent of the provincial total have a gross vehicle weight of 5000 pounds or less, whereas only about 3000 trucks are in the over 30,000 pound group. More reliable results were obtained not only by concentrating higher sampling ratios among the weight groups containing the larg-

est vehicles with the most diversified type of operations, but also by ensuring that each weight group contained a sufficient number of vehicles for expansion purposes. The proportion selected by weight group varied, therefore, from 5 per cent in the lowest weight group to about 32 per cent in the heaviest with the result that an overall sample of 10 per cent of registrations was made to represent approximately 20 per cent of total motor vehicle capacity.

The quarterly samples were also stratified by function or type of operation into the four categories: for hire, private intercity, private urban and private farm. For hire trucks are those operated for compensation or gain anywhere in the province according to licence; private intercity trucks are those which are owned and operated on intercity routes by business, industry and individuals to transport their own raw materials, finished goods or merchandise; private urban vehicles are those which are operated predominantly within urban or metropolitan areas; and, private farm trucks are those operated by farmers primarily for the transportation of farm produce and farm supplies, or for farm service purposes.

In British Columbia for the period covered by this report, trucks operated for compensation or gain as contract or common carriers and engaged in either urban and/or intercity operations as well as certain classes of private intercity and farm trucks were required to obtain a motor carrier licence in addition to a motor vehicle licence making it possible to identify them prior to the survey. All other vehicles, for which a motor vehicle licence only was required, were assigned to the various classes on the basis of predominant type of operation, as shown by replies to the survey questionnaire.

### Expansion of the Survey Results

Since each quarterly sample was selected at random, the final distribution of each sample by gross vehicle weight and by function was used to provide population estimates at the time of the sample selection. The results of each quarterly survey were then expanded to represent all trucks and intercity buses registered in the province as well as the operations performed during the three month period. Generally, this was achieved by multiplying the

sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week. Expansion on the basis of the relative size of the sample and population varied with each gross vehicle weight group and with the breakdown of the gross sample into various categories of response. Since there are 13 weeks in a three month period, time expansion was achieved by multiplying by 13 in all cases.

The resulting expanded data for each of the four quarterly surveys were then combined to obtain provincial estimates for the twelve month period. Yearly operating averages such as average yearly

mileage were calculated from the average number of vehicles registered during the twelve month period. All other operating ratios were obtained from the twelve month aggregates.

### Review of Survey Results

Excluding vehicles which do not perform transportation services, the average number of trucks registered in British Columbia during the twelve month period ending December 31, 1956 was 79,761. Of this number, 3,780 or 5 per cent were common or for hire carriers, 33,108 or 41 per cent were private intercity trucks owned and operated by individuals, business and industry to transport their own goods; 29,985 or 38 per cent were trucks used in urban operations and 12,888 or 16 per cent were farm trucks used mainly in the growing, servicing and market activities of the farmer.

Blanks appear in a number of places in the following tables, where no vehicles of certain weight classifications were selected in any of the four samples. It does not necessarily follow that there were no vehicles belonging to these classifications in operation in the province. Those cells marked with an asterisk in Appendix I (Number of Questionnaires Returned Completed) contain a relatively small sample of trucks and hence statistics appearing in such classes or cells throughout the report are not considered reliable.

Comparing truck population estimates and operating averages as reported previously for the year ended June 30, 1956 with data shown in this publication for the year ended December 31, 1956, a slight decline in some of the statistics might be noted. However, such a drop is not considered significant and should not necessarily be attributed to any decline in the trucking industry of British Columbia but rather to a refinement in sampling techniques of collecting and processing motor transport traffic data. In addition, an estimated 3,000 station wagons not engaged in trucking operations have been excluded from this report. These vehicles were included in the first summary-year ended June 30, 1956. Including such vehicles, the average truck population in British Columbia would probably have amounted to an estimated 82,800 instead of 79,761 as shown in Appendix I.

**Section I:** The total number of miles travelled by all trucks registered in British Columbia, intra-provincially, interprovincially, internationally and extraprovincially (traffic performed entirely outside the province) during the calendar year 1956 amounted to 571 million of which 69 million miles or 12 per cent were accumulated by for hire trucks and 288 million or 50 per cent by private intercity trucks. On the average, trucks registered in the province travelled 7,200 miles during the year and each ton of goods was transported an average distance of 20.3 miles. For hire trucks travelled an average of 18,200 miles during the period compared with an average of 8,700 miles for private intercity vehicles

and carried goods 72 per cent of the time against 45 per cent for private intercity trucks. For hire and private intercity trucks carried each ton of goods an average distance of 35.6 and 22.4 miles respectively.

The amount of fuel consumed by British Columbia registered trucks totalled 49.3 million imperial gallons of gasoline, 5.6 million gallons of diesel oil and 102,000 gallons of other fuel. As there were relatively few trucks included in the survey which were not gasoline trucks, the estimates of diesel oil and other fuel consumed are not entirely reliable and should therefore be used with caution. Miles per gallon of gasoline varied from 6.8 for the common carriers to 14.3 for the farm trucks. The average for all gasoline trucks amounted to 10.9 miles per gallon, for diesel trucks, 5.8 miles per gallon and for trucks consuming other fuel, 5.6 miles per gallon.

The volume of goods transported by all trucks registered in the province totalled 49.5 million tons. For hire trucks carried 10.4 million tons or 21 per cent of the total; private intercity trucks, 24.7 million tons or 50 per cent; private urban trucks 13.4 million tons or 27 per cent and farm trucks 1 million tons or 2 per cent of the total volume. Ton miles performed aggregated 1,003 million, an average of 12,600 ton miles per vehicle.

Total capacity ton miles amounted to 2,239 million, an average of 28,100 capacity ton miles per vehicle. The percentage of capacity utilized by all trucks was 44.8 and by for hire trucks, 49.4 per cent. Gross ton miles aggregated 2,690 million, an average of 33,700 gross ton miles per vehicle.

The total amount of revenue received by common or for hire carriers for all types of service amounted to 33.4 million dollars or 8,800 dollars per vehicle. Revenue per ton mile was 9.1 cents whereas revenue per total mile amounted to 43.6 cents.

**Section II:** Statistics on the total amount of traffic performed by British Columbia registered trucks within the boundaries of the province are presented in this section. In addition to the intra-provincial traffic, it includes that portion of inter-provincial and international traffic which was performed on British Columbia streets and highways.

The total number of miles travelled by British Columbia registered trucks within the province amounted to 532 million, compared with the grand total of 571 million miles travelled both inside and outside the province. The yearly mileage per truck averaged 6.700 as against 7,200 miles.

The total volume of goods carried in British Columbia amounted to 49.1 million tons. Ton miles totalled 616 million compared with 1,003 million inside and outside the province and average ton miles per vehicle equalled 7,700 as against 12,600 ton miles. The average weight carried per vehicle amounted to 2.6 tons compared with 3.7 tons, while each ton of goods was carried an average distance of 12.5 miles within, as against 20.3 miles inside and outside the province.

Total revenue received by for hire carriers for the transportation of goods on British Columbia streets and highways amounted to 26.4 million dollars, an average of 7,000 dollars per vehicle and 12.1 cents per ton mile.

**Section III:** This section presents statistics on interprovincial and international traffic performed by British Columbia registered trucks. Table 13 shows the total amount of goods transported out of British Columbia to other provinces and the United States as well as the volume of goods transported into British Columbia from other provinces and the United States.

Table 14 shows estimates of interprovincial and international transportation by gross vehicle weight groups and by class of carrier. Of the total transportation amounting to 412 million ton miles, 37 per cent or 151 million ton miles were performed by for hire carriers.

Commodities carried by vehicles engaged in interprovincial and international transportation are shown in table 15. The total weight of goods transported was 602,000 tons, of which 229,000 tons or 38 per cent was carried by for hire trucks. Revenue received by common carriers amounted to 6.6 million dollars at an average rate of 4.4 cents per ton mile. Each ton of goods was transported an average distance of 660 miles. Manufactures and miscellaneous items totalling 164,000 tons were the chief commodities transported by for hire carriers for which revenue of 4 million dollars was received.

Private vehicles engaged in interprovincial and international service transported 373,000 tons of goods; 144,000 tons or 39 per cent of which were manufactures and miscellaneous items.

**Section IV:** The total number of passengers carried by intercity buses licensed in British Columbia during the twelve month period ending December 31, 1956 is estimated at 12.3 million. In transporting this number of passengers, buses travelled 13.7 million miles, an average of 45,800 miles per bus. The average distance each passenger was carried equalled 19 miles. Passenger miles performed totalled 233 million and, for each mile travelled, buses carried an average of 16.9 passengers. Capacity seat miles performed amounted to 671 million, indicating that the average percentage of capacity utilized was 34.7.

In travelling this number of miles, buses used 1.33 million gallons of gasoline and 567,000 gallons of diesel oil. Gasoline engined buses averaged 7.2 miles per gallon and those using diesel oil, 9.2 miles per gallon.

Total revenue received for the transportation of passengers amounted to almost 5.9 million dollars, an average of 19,600 dollars per bus, 42.8 cents per total mile or 2.5 cents per passenger mile.

**Section V:** Within the provincial boundaries of British Columbia, buses travelled a distance of 11.3 million miles using 1.28 million gallons of gasoline and 330,000 gallons of diesel oil. Estimated passenger miles performed totalled 187 million and average capacity utilized was 33.8 per cent. Revenue collected for mileage travelled in British Columbia amounted to almost 5 million dollars, an average of 16,600 dollars per bus at the rate of 2.6 cents per passenger mile.

**Appendix:** The appendix to this report provides an analysis of the sampling response as well as the estimated average British Columbia truck population for the year. Over the twelve month period ending December 31, 1956, survey questionnaires were sent to the owners or operators of 8,605 trucks. Of this total, 4,019 were returned completed while 2,351 trucks were reported not in use during the survey week for a number of reasons such as "being repaired" and "operator ill". In addition, 1,339 questionnaires were returned but they were incompletely filled out and therefore unusable. Non response to the survey totalled 896 or 10.4 per cent.



**Section I. Motor Truck Traffic Performed by British Columbia Registered Trucks Inside and Outside the Province**  
**January 1, 1956 – December 31, 1956**  
**TABLE 1. Total Mileage Travelled**

Type of operation <sup>1</sup>	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Total mileage travelled							
'000							
For hire .....	2,402	6,389	4,634	9,286	16,292	29,756	68,759
Private:							
Intercity .....	126,566	57,089	13,274	23,515	33,513	33,644	287,601
Urban .....	81,911	56,079	7,342	3,737	5,419	2,678	157,166
Farm .....	38,684	14,295	2,497	1,270	530	179	57,455
<b>Total</b> .....	<b>249,563</b>	<b>133,852</b>	<b>27,747</b>	<b>37,808</b>	<b>55,754</b>	<b>66,257</b>	<b>570,981</b>
Average yearly mileage per truck							
For hire .....	8,900	13,100	9,700	11,800	16,800	37,900	18,200
Private:							
Intercity .....	7,800	7,900	8,100	7,800	10,700	18,100	8,700
Urban .....	5,000	5,500	4,600	4,700	7,300	8,700	5,200
Farm .....	4,800	4,000	4,100	2,700	3,200	11,900	4,500
<b>Total</b> .....	<b>6,100</b>	<b>6,200</b>	<b>6,400</b>	<b>7,500</b>	<b>11,100</b>	<b>22,400</b>	<b>7,200</b>
Average journey (Average distance each ton of goods was carried)							
For hire .....	12.5	13.9	20.3	14.6	14.9	79.4	35.6
Private:							
Intercity .....	25.7	15.6	16.7	12.3	15.2	37.3	22.4
Urban .....	14.4	10.3	6.1	7.3	3.6	3.2	4.9
Farm .....	13.5	10.0	34.1	9.6	32.1	4.0	13.5
<b>Total</b> .....	<b>18.9</b>	<b>12.5</b>	<b>13.0</b>	<b>11.9</b>	<b>12.3</b>	<b>36.3</b>	<b>20.3</b>
Percentage of total mileage travelled empty							
For hire .....	26.2	23.4	24.2	30.4	34.5	26.2	28.3
Private:							
Intercity .....	68.7	55.4	40.5	40.3	38.7	31.2	54.6
Urban .....	66.8	48.8	29.9	24.4	43.4	39.9	56.4
Farm .....	70.3	63.1	50.0	49.2	55.2	56.3	67.0
<b>Total</b> .....	<b>67.9</b>	<b>51.9</b>	<b>35.8</b>	<b>36.6</b>	<b>38.1</b>	<b>29.3</b>	<b>53.1</b>

1. For hire trucks – operated for compensation or gain anywhere in the province according to licence. Private – Intercity trucks – owned and operated on intercity routes by business, industry and individuals to transport their own raw materials, finished goods and merchandise. Private – Urban trucks – operated primarily within urban areas. Private – Farm trucks – owned and operated by farmers primarily to transport farm produce, farm supplies or for service purposes.

**Section I. Motor Truck Traffic Performed by British Columbia Registered Trucks Inside and Outside the Province**  
**January 1, 1956 – December 31, 1956**  
**TABLE 2. Total Fuel Consumption**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gallons of gasoline consumed							
'000							
For hire .....	178	572	595	1,209	2,175	2,947	7,676
Private:							
Intercity .....	8,123	4,525	1,320	2,978	4,715	3,725	25,386
Urban .....	5,299	4,261	763	451	899	523	12,196
Farm .....	2,462	1,060	247	142	69	32	4,012
<b>Total</b> .....	<b>18,062</b>	<b>10,418</b>	<b>2,925</b>	<b>4,780</b>	<b>7,858</b>	<b>7,227</b>	<b>49,270</b>
Total gallons of diesel oil consumed							
'000							
For hire .....	–	–	–	–	307	2,527	2,834
Private:							
Intercity .....	–	–	–	–	349	2,438	2,787
Urban .....	–	–	–	–	–	–	–
Farm .....	–	–	–	–	–	–	–
<b>Total</b> .....	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>656</b>	<b>4,965</b>	<b>5,621</b>

Section I. Motor Truck Traffic Performed by British Columbia Registered Trucks Inside and Outside the Province  
 January 1, 1956 – December 31, 1956

TABLE 2. Total Fuel Consumption – Concluded

Type of operation	Gross vehicle weight groups							Total	
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total		
Total gallons of other fuel consumed									
'000									
For hire .....	—	—	—	—	—	—	—	—	
Private:									
Intercity .....	—	—	—	—	10	28	38		
Urban .....	—	—	—	—	—	—	—		
Farm .....	—	—	—	—	—	—	—		
<b>Total</b> .....	—	—	—	—	<b>10</b>	<b>28</b>	<b>38</b>		
Miles per gallon of gasoline									
For hire .....	13.5	11.2	7.8	7.7	6.6	5.0	6.8		
Private:									
Intercity .....	15.6	12.6	10.1	7.9	6.6	5.2	10.7		
Urban .....	15.5	13.2	9.6	8.3	6.0	5.1	12.9		
Farm .....	15.7	13.5	10.1	9.0	7.7	5.6	14.3		
<b>Total</b> .....	<b>15.5</b>	<b>12.8</b>	<b>9.5</b>	<b>7.9</b>	<b>6.5</b>	<b>5.1</b>	<b>10.9</b>		
Miles per gallon of diesel oil									
For hire .....	—	—	—	—	6.2	5.7	5.8		
Private:									
Intercity .....	—	—	—	—	6.2	5.7	5.7		
Urban .....	—	—	—	—	—	—	—		
Farm .....	—	—	—	—	—	—	—		
<b>Total</b> .....	—	—	—	—	<b>6.2</b>	<b>5.7</b>	<b>5.8</b>		
Miles per gallon of other fuel									
For hire .....	—	—	—	—	—	—	—		
Private:									
Intercity .....	—	—	—	—	7.4	4.9	5.6		
Urban .....	—	—	—	—	—	—	—		
Farm .....	—	—	—	—	—	—	—		
<b>Total</b> .....	—	—	—	—	<b>7.4</b>	<b>4.9</b>	<b>5.6</b>		

Section I. Motor Truck Traffic Performed by British Columbia Registered Trucks Inside and Outside the Province  
 January 1, 1956 – December 31, 1956

TABLE 3. Total Goods Carried and Ton Miles Performed

Type of operation	Gross vehicle weight groups							Total	
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total		
Total tons of goods carried									
'000									
For hire .....	42	408	486	1,538	4,593	3,297	10,364		
Private:									
Intercity .....	504	898	1,349	3,741	10,034	8,201	24,727		
Urban .....	375	1,199	1,656	1,063	4,736	4,345	13,374		
Farm .....	263	270	134	146	34	195	1,042		
<b>Total</b> .....	<b>1,184</b>	<b>2,775</b>	<b>3,625</b>	<b>6,488</b>	<b>19,397</b>	<b>16,038</b>	<b>49,507</b>		
Average weight carried (Average weight of goods carried per one-way trip) <sup>1</sup>									
For hire .....	.3	1.2	2.8	3.5	6.4	11.9	7.5		
Private:									
Intercity .....	.3	.6	2.9	3.3	7.4	13.2	4.2		
Urban .....	.2	.4	1.9	2.8	5.5	8.5	1.0		
Farm .....	.3	.5	3.7	2.2	4.6	9.9	.7		
<b>Total</b> .....	<b>.3</b>	<b>.5</b>	<b>2.6</b>	<b>3.2</b>	<b>6.9</b>	<b>12.4</b>	<b>3.7</b>		

1. Excludes vehicles making trips empty.

**Section I . Motor Truck Traffic Performed by British Columbia Registered Trucks Inside and Outside the Province**  
**January 1, 1956 – December 31, 1956**

TABLE 3. Total Goods Carried and Ton Miles Performed – Concluded

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total ton miles performed							
'000							
For hire .....	527	5,663	9,880	22,396	68,528	261,919	368,913
Private:							
Intercity .....	12,948	14,017	22,520	45,878	152,266	306,175	553,804
Urban .....	5,386	12,397	10,023	7,766	16,896	13,726	66,194
Farm .....	3,545	2,690	4,566	1,404	1,093	770	14,068
<b>Total</b> .....	<b>22,406</b>	<b>34,767</b>	<b>46,989</b>	<b>77,444</b>	<b>238,783</b>	<b>582,590</b>	<b>1,002,979</b>
Average ton miles per truck							
For hire .....	2,000	11,700	20,600	28,500	70,500	333,200	97,600
Private:							
Intercity .....	800	1,900	13,700	15,200	48,600	165,100	16,700
Urban .....	300	1,200	6,300	9,700	22,900	44,600	2,200
Farm .....	400	800	7,500	3,000	6,700	51,300	1,100
<b>Total</b> .....	<b>500</b>	<b>1,600</b>	<b>10,900</b>	<b>15,300</b>	<b>47,700</b>	<b>196,600</b>	<b>12,600</b>

**Section I . Motor Truck Traffic Performed by British Columbia Registered Trucks Inside and Outside the Province**  
**January 1, 1956 – December 31, 1956**

TABLE 4. Total Truck Capacity

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total capacity ton miles <sup>1</sup>							
'000							
For hire .....	2,054	15,493	22,161	55,478	140,077	511,016	746,279
Private:							
Intercity .....	98,073	73,673	56,814	134,429	291,167	519,241	1,173,397
Urban .....	59,654	62,884	25,764	20,293	42,941	35,388	246,924
Farm .....	30,154	17,364	12,594	6,647	3,791	2,040	72,590
<b>Total</b> .....	<b>189,835</b>	<b>169,414</b>	<b>117,333</b>	<b>216,847</b>	<b>477,976</b>	<b>1,067,685</b>	<b>2,239,190</b>
Capacity ton miles per truck							
For hire .....	7,600	31,900	46,200	70,600	144,100	650,100	197,400
Private:							
Intercity .....	6,100	10,100	34,600	44,600	93,000	280,100	35,400
Urban .....	3,600	6,200	16,100	25,400	58,200	114,900	8,200
Farm .....	3,700	4,900	20,800	14,000	23,100	136,000	5,600
<b>Total</b> .....	<b>4,600</b>	<b>7,900</b>	<b>27,100</b>	<b>42,800</b>	<b>95,500</b>	<b>360,300</b>	<b>28,100</b>
Percentage of capacity utilized							
For hire .....	25.6	36.6	44.6	40.4	48.9	51.3	49.4
Private:							
Intercity .....	13.2	19.0	39.6	34.1	52.3	59.0	47.2
Urban .....	9.0	19.7	38.9	38.3	39.3	38.8	26.8
Farm .....	11.8	15.5	36.3	21.1	28.8	37.8	19.4
<b>Total</b> .....	<b>11.8</b>	<b>20.5</b>	<b>40.0</b>	<b>35.7</b>	<b>50.0</b>	<b>54.6</b>	<b>44.8</b>

<sup>1</sup>. Capacity ton miles are determined by multiplying the actual total number of miles travelled by the difference between gross vehicle weight and estimated tare weight or the weight of the heaviest load carried, whichever is higher.

**Section I. Motor Truck Traffic Performed by British Columbia Registered Trucks Inside and Outside the Province**  
**January 1, 1956 – December 31, 1956**

TABLE 5. Total Gross Ton Miles Performed<sup>1</sup>

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gross ton miles							
'000							
For hire .....	4,600	21,518	26,340	57,940	145,600	506,006	762,004
Private:							
Intercity .....	212,143	129,756	66,166	140,023	311,619	571,132	1,430,839
Urban .....	129,244	120,132	33,676	22,331	42,333	32,499	380,215
Farm .....	62,445	30,258	13,072	6,114	3,509	1,833	117,231
<b>Total .....</b>	<b>408,432</b>	<b>301,664</b>	<b>139,254</b>	<b>226,408</b>	<b>503,061</b>	<b>1,111,470</b>	<b>2,690,289</b>
Average gross ton miles per truck							
For hire .....	17,000	44,300	54,900	73,700	149,800	643,800	201,600
Private:							
Intercity .....	13,100	17,900	40,300	46,500	99,500	308,100	43,200
Urban .....	7,900	11,800	21,000	28,000	57,400	105,500	12,700
Farm .....	7,700	8,500	21,600	12,900	21,400	122,200	9,100
<b>Total .....</b>	<b>10,000</b>	<b>14,000</b>	<b>32,200</b>	<b>44,700</b>	<b>100,500</b>	<b>375,100</b>	<b>33,700</b>

1. Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

**Section I. Motor Truck Traffic Performed by British Columbia Registered Trucks Inside and Outside the Province**  
**January 1, 1956 – December 31, 1956**

TABLE 6. Total Revenue From Operations Performed by For Hire Carriers

	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total revenue .....	\$ 420,000	2,015,000	2,429,000	4,500,000	8,397,000	15,675,000	33,436,000
Revenue per ton mile .....	¢ 79.6	35.6	24.6	20.1	12.3	6.0	9.1
Revenue per mile (total mileage travelled) ¢	17.5	31.5	52.4	48.5	51.5	52.7	48.6
Average yearly revenue per truck .....	\$ 1,600	4,100	5,100	5,700	8,600	19,900	8,800

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**January 1, 1956 – December 31, 1956**

TABLE 7. Mileage Travelled Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Total mileage travelled							
'000							
For hire .....	2,402	6,389	4,537	9,286	15,212	16,646	54,472
Private:							
Intercity .....	122,086	56,644	13,274	22,151	28,503	20,457	263,115
Urban .....	81,911	56,079	7,342	3,737	5,419	2,678	157,166
Farm .....	38,684	14,295	2,497	1,270	530	179	57,455
<b>Total .....</b>	<b>245,083</b>	<b>133,407</b>	<b>27,650</b>	<b>36,444</b>	<b>49,664</b>	<b>39,960</b>	<b>532,208</b>

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**January 1, 1956—December 31, 1956**

TABLE 7. Mileage Travelled Within the Province — Concluded

Type of operation	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Average yearly mileage per truck							
For hire .....	8,900	13,100	9,500	11,800	15,700	21,200	14,400
Private:							
Intercity .....	7,500	7,800	8,100	7,400	9,100	11,000	7,900
Urban .....	5,000	5,500	4,600	4,700	7,300	8,700	5,200
Farm .....	4,800	4,000	4,100	2,700	3,200	11,900	4,500
<b>Total</b> .....	<b>6,000</b>	<b>6,200</b>	<b>6,400</b>	<b>7,200</b>	<b>9,900</b>	<b>13,500</b>	<b>6,700</b>
Average journey (Average distance each ton of goods was carried)							
For hire .....	12.5	13.9	20.3	14.6	11.9	40.3	21.5
Private:							
Intercity .....	25.2	15.4	16.7	11.7	9.6	15.8	12.9
Urban .....	14.4	10.3	6.1	7.3	3.6	3.2	4.9
Farm .....	13.5	10.0	34.1	9.6	32.1	4.0	13.5
<b>Total</b> .....	<b>18.7</b>	<b>12.5</b>	<b>13.0</b>	<b>11.6</b>	<b>8.7</b>	<b>17.0</b>	<b>12.5</b>
Percentage of total mileage travelled empty							
For hire .....	26.2	23.4	23.7	30.4	36.9	32.9	31.4
Private:							
Intercity .....	71.1	55.9	40.5	42.4	43.8	45.2	58.9
Urban .....	66.8	48.8	29.9	24.4	43.4	39.9	56.4
Farm .....	70.3	63.1	50.0	49.2	55.2	56.3	67.0
<b>Total</b> .....	<b>69.1</b>	<b>52.1</b>	<b>35.8</b>	<b>37.8</b>	<b>41.7</b>	<b>39.8</b>	<b>56.2</b>

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**January 1, 1956—December 31, 1956**

TABLE 8. Fuel Consumption Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gallons of gasoline consumed							
'000							
For hire .....	178	572	586	1,209	2,124	2,101	6,770
Private:							
Intercity .....	7,905	4,503	1,320	2,852	4,195	3,492	24,267
Urban .....	5,299	4,261	763	451	899	523	12,196
Farm .....	2,462	1,060	247	142	69	32	4,012
<b>Total</b> .....	<b>15,844</b>	<b>10,396</b>	<b>2,916</b>	<b>4,654</b>	<b>7,287</b>	<b>6,148</b>	<b>47,245</b>
Total gallons of diesel oil consumed							
'000							
For hire .....	—	—	—	—	197	1,060	1,257
Private:							
Intercity .....	—	—	—	—	60	554	614
Urban .....	—	—	—	—	—	—	—
Farm .....	—	—	—	—	—	—	—
<b>Total</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>257</b>	<b>1,614</b>	<b>1,871</b>

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**January 1, 1956—December 31, 1956**

TABLE 8. Fuel Consumption Within the Province — Concluded

Type of operation	Gross vehicle weight groups							Total	
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total		
Total gallons of other fuel consumed									
'000									
For hire .....	—	—	—	—	—	—	—	—	
Private:									
Intercity .....	—	—	—	—	10	28	38	38	
Urban .....	—	—	—	—	—	—	—	—	
Farm .....	—	—	—	—	—	—	—	—	
<b>Total</b> .....	—	—	—	—	<b>10</b>	<b>28</b>	<b>38</b>	<b>38</b>	
Miles per gallon of gasoline									
For hire .....	13.5	11.2	7.7	7.7	6.6	5.1	7.0	7.0	
Private:									
Intercity .....	16.0	12.7	10.1	7.8	6.9	5.3	11.0	11.0	
Urban .....	15.5	13.2	9.6	8.3	6.0	5.1	12.9	12.9	
Farm .....	15.7	13.5	10.1	9.0	7.7	5.6	14.3	14.3	
<b>Total</b> .....	<b>15.7</b>	<b>12.9</b>	<b>9.5</b>	<b>7.8</b>	<b>6.7</b>	<b>5.2</b>	<b>11.2</b>	<b>11.2</b>	
Miles per gallon of diesel oil									
For hire .....	—	—	—	—	5.6	5.5	5.5	5.5	
Private:									
Intercity .....	—	—	—	—	7.4	4.6	4.9	4.9	
Urban .....	—	—	—	—	—	—	—	—	
Farm .....	—	—	—	—	—	—	—	—	
<b>Total</b> .....	—	—	—	—	<b>6.0</b>	<b>5.2</b>	<b>5.3</b>	<b>5.3</b>	
Miles per gallon of other fuel									
For hire .....	—	—	—	—	—	—	—	—	
Private:									
Intercity .....	—	—	—	—	7.4	4.9	5.6	5.6	
Urban .....	—	—	—	—	—	—	—	—	
Farm .....	—	—	—	—	—	—	—	—	
<b>Total</b> .....	—	—	—	—	<b>7.4</b>	<b>4.9</b>	<b>5.6</b>	<b>5.6</b>	

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**January 1, 1956—December 31, 1956**

TABLE 9. Goods Carried and Ton Miles Performed Within the Province

Type of operation	Gross vehicle weight groups							Total	
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total		
Total tons of goods carried									
'000									
For hire .....	42	408	486	1,538	4,586	3,117	10,177	10,177	
Private:									
Intercity .....	503	897	1,349	3,725	9,992	8,072	24,538	24,538	
Urban .....	375	1,199	1,656	1,063	4,736	4,345	13,374	13,374	
Farm .....	263	270	134	146	34	195	1,042	1,042	
<b>Total</b> .....	<b>1,183</b>	<b>2,774</b>	<b>3,625</b>	<b>6,472</b>	<b>19,348</b>	<b>15,729</b>	<b>49,131</b>	<b>49,131</b>	
Average weight carried (Average weight of goods carried per one-way trip) <sup>1</sup>									
For hire .....	.3	1.2	2.8	3.5	5.7	11.2	5.9	5.9	
Private:									
Intercity .....	.3	.6	2.9	3.4	5.9	11.0	2.8	2.8	
Urban .....	.2	.4	1.9	2.8	5.5	8.5	1.0	1.0	
Farm .....	.3	.5	3.7	2.2	4.6	9.9	.7	.7	
<b>Total</b> .....	<b>.3</b>	<b>.5</b>	<b>2.6</b>	<b>3.3</b>	<b>5.8</b>	<b>11.0</b>	<b>2.6</b>	<b>2.6</b>	

1. Excludes vehicles making trips empty.

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**January 1, 1956 – December 31, 1956**

**TABLE 9. Goods Carried and Ton Miles Performed Within the Province – Concluded**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total ton miles performed							
'000							
For hire .....	527	5,663	9,844	22,396	54,761	125,582	218,773
Private:							
Intercity .....	12,696	13,841	22,520	43,583	96,344	127,571	316,555
Urban .....	5,386	12,397	10,023	7,766	16,896	13,726	66,194
Farm .....	3,545	2,690	4,566	1,404	1,093	770	14,068
<b>Total</b> .....	<b>22,154</b>	<b>34,591</b>	<b>46,953</b>	<b>75,149</b>	<b>169,094</b>	<b>267,649</b>	<b>615,590</b>
Average ton miles per truck							
For hire .....	2,000	11,700	20,500	28,500	56,300	159,800	57,900
Private:							
Intercity .....	800	1,900	13,700	14,500	30,800	68,800	9,600
Urban .....	300	1,200	6,300	9,700	22,900	44,600	2,200
Farm .....	400	800	7,500	3,000	6,700	51,300	1,100
<b>Total</b> .....	<b>500</b>	<b>1,600</b>	<b>10,900</b>	<b>14,800</b>	<b>33,800</b>	<b>90,300</b>	<b>7,700</b>

**Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province**  
**January 1, 1956 – December 31, 1956**

**TABLE 10. Truck Capacity Within the Province**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total capacity ton miles <sup>1</sup>							
'000							
For hire .....	2,046	15,493	21,892	55,478	123,315	288,263	506,487
Private:							
Intercity .....	94,427	73,294	56,814	126,019	227,527	303,342	881,423
Urban .....	59,654	62,884	25,764	20,293	42,941	35,388	246,924
Farm .....	30,154	17,364	12,594	6,647	3,791	2,040	72,590
<b>Total</b> .....	<b>186,281</b>	<b>169,035</b>	<b>117,064</b>	<b>208,437</b>	<b>397,574</b>	<b>629,033</b>	<b>1,707,424</b>
Capacity ton miles per truck							
For hire .....	7,600	31,900	45,600	70,600	126,900	366,700	134,000
Private:							
Intercity .....	5,800	10,100	34,600	41,900	72,700	163,600	26,600
Urban .....	3,600	6,200	16,100	25,400	58,200	114,900	8,200
Farm .....	3,700	4,900	20,800	14,000	23,100	136,000	5,600
<b>Total</b> .....	<b>4,600</b>	<b>7,900</b>	<b>27,100</b>	<b>41,100</b>	<b>79,400</b>	<b>212,300</b>	<b>21,400</b>
Percentage of capacity utilized							
For hire .....	25.8	36.6	45.0	40.4	44.4	43.6	43.2
Private:							
Intercity .....	13.4	18.9	39.6	34.6	42.3	42.1	35.9
Urban .....	9.0	19.7	38.9	38.3	39.3	38.8	26.8
Farm .....	11.8	15.5	36.3	21.1	28.8	37.8	19.4
<b>Total</b> .....	<b>11.9</b>	<b>20.5</b>	<b>40.1</b>	<b>36.1</b>	<b>42.5</b>	<b>42.5</b>	<b>36.1</b>

<sup>1</sup>. Capacity ton miles are determined by multiplying the actual number of miles travelled within the province by the difference between gross vehicle weight and estimated tare weight or the weight of the heaviest load carried, whichever is higher.

Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province  
January 1, 1956 — December 31, 1956

TABLE 11. Gross Ton Miles Performed Within the Province<sup>1</sup>

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gross ton miles							
'000							
For hire .....	4,600	21,518	25,952	57,940	126,416	256,558	492,984
Private:							
Intercity .....	204,585	128,734	66,186	132,471	229,260	276,697	1,037,913
Urban .....	129,244	120,132	33,676	22,331	42,333	32,499	380,215
Farm .....	62,445	30,258	13,072	6,114	3,509	1,833	117,231
<b>Total</b> .....	<b>400,874</b>	<b>300,642</b>	<b>138,866</b>	<b>218,856</b>	<b>401,518</b>	<b>567,587</b>	<b>2,028,343</b>
Average gross ton miles per truck							
For hire .....	17,000	44,300	54,100	73,700	130,100	326,400	130,400
Private:							
Intercity .....	12,600	17,700	40,300	44,000	73,200	149,200	31,300
Urban .....	7,900	11,800	21,000	28,000	57,400	105,500	12,700
Farm .....	7,700	8,500	21,600	12,900	21,400	122,200	9,100
<b>Total</b> .....	<b>9,800</b>	<b>14,000</b>	<b>32,100</b>	<b>43,200</b>	<b>80,200</b>	<b>191,600</b>	<b>25,400</b>

1. Gross ton miles performed are determined by adding to the total ton miles performed the weight of vehicle empty (tare) multiplied by total mileage travelled.

Section II. Motor Truck Traffic Performed by British Columbia Registered Trucks Within the Province  
January 1, 1956 — December 31, 1956

TABLE 12. Revenue From Operations Performed by For Hire Carriers Within the Province

	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total revenue .....	\$ 420,000	2,015,000	2,377,000	4,500,000	7,889,000	9,231,000	26,432,000
Revenue per ton mile .....	¢ 79.6	35.6	24.1	20.1	14.4	7.4	12.1
Revenue per mile (total mileage travelled) ¢	17.5	31.5	52.4	48.5	51.9	55.5	48.5
Average yearly revenue per truck .....	\$ 1,600	4,100	5,000	5,700	8,100	11,700	7,000

Section III. Motor Truck Traffic Performed by British Columbia Registered Trucks Engaged in Interprovincial and International Traffic January 1, 1956 — December 31, 1956

TABLE 13. Total Tons of Goods Carried Into and Out of British Columbia by Origin and Destination, by Type of Operation

Origin or destination	For hire trucks	Private intercity trucks	All trucks	
			'000 tons	'000 tons
To Ontario .....			11	28
From Ontario .....			3	31
To Manitoba .....			4	—
From Manitoba .....			7	—
To Alberta .....			36	113
From Alberta .....			78	63
To Yukon Territory .....			3	19
From Yukon Territory .....			—	8
To United States .....			68	44
From United States .....			19	67
<b>Grand total .....</b>	<b>To</b>		<b>122</b>	<b>204</b>
	<b>From</b>		<b>107</b>	<b>169</b>
				<b>326</b>
				<b>276</b>

**Section III. Motor Truck Traffic Performed by British Columbia Registered Trucks Engaged in Interprovincial and International Traffic January 1, 1956—December 31, 1956**

**TABLE 14. Interprovincial and International Traffic by Gross Vehicle Weight Groups**

Gross vehicle weight	For hire trucks			
	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per trip
	'000	'000	Tons	Miles
20,000 lbs. or less .....	34	25	1	148
20,001-25,000 lbs. ....	207	800	4	304
25,001-30,000 lbs. ....	230	1,150	5	1,013
30,001-35,000 lbs. ....	1,171	9,127	8	516
35,001-40,000 lbs. ....	2,144	20,674	10	326
40,001-45,000 lbs. ....	818	12,456	15	1,201
45,001-50,000 lbs. ....	—	—	—	—
50,001 lbs. and over .....	6,916	107,008	15	508
<b>Total</b> .....	<b>11,520</b>	<b>151,240</b>	<b>13</b>	<b>474</b>
Private intercity trucks				
Gross vehicle weight	'000	'000	Tons	Miles
	190	303	2	110
	315	1,819	6	110
	294	2,445	8	128
	108	1,085	10	189
	1,154	14,726	13	251
	2,229	29,923	13	311
	3,169	49,558	16	2,208
	10,473	160,873	15	1,825
	<b>17,932</b>	<b>260,731</b>	<b>15</b>	<b>679</b>

**Section III. Motor Truck Traffic Performed by British Columbia Registered Trucks Engaged in Interprovincial and International Traffic January 1, 1956—December 31, 1956**

**TABLE 15. Commodities Carried by British Columbia Registered Trucks in Interprovincial and International Traffic**

Commodity classification	For hire trucks						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	Tons	Miles	\$'000	¢
Agricultural products .....	1	23	22	1	32	1	4.55
Animals and animal products .....	10	846	12,698	15	1,270	461	3.63
Mine products .....	—	—	—	—	—	—	—
Forest products .....	15	115	1,461	13	97	74	5.10
Manufactures and miscellaneous .....	164	7,450	95,627	13	583	4,023	4.21
N.O.S. general freight .....	39	3,086	41,432	13	1,062	2,043	4.93
<b>Total</b> .....	<b>229</b>	<b>11,520</b>	<b>151,240</b>	<b>13</b>	<b>660</b>	<b>6,602</b>	<b>4.37</b>
Private intercity trucks							
Commodity classification	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	Tons	Miles		
	17	344	5,349	16	315		
	14	549	4,732	9	338		
	24	394	5,757	15	240		
	83	982	14,363	15	173		
	144	4,017	45,671	11	317		
	91	11,646	184,859	16	2,031		
	<b>373</b>	<b>17,932</b>	<b>260,731</b>	<b>15</b>	<b>704</b>		

Section IV. Motor Bus Traffic Performed by British Columbia Registered Buses Inside and Outside the Province  
 January 1, 1956 — December 31, 1956

TABLE 16. Mileage, Fuel, Passengers and Passenger Miles, Capacity and Revenue

	Passenger seating capacity				
	0-19	20-29	30-39	40 and over	Total
<b>Mileage:</b>					
Total mileage travelled .....	193,000	301,000	2,324,000	10,929,000	13,747,000
Average yearly mileage per bus .....	12,100	12,500	26,400	63,500	45,800
Average journey (average distance per passenger) .....	56.3	5.7	14.2	21.6	19.0
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	17,000	46,000	259,000	1,004,000	1,326,000
Total gallons of diesel oil consumed .....	—	—	45,000	522,000	567,000
Miles per gallon of gasoline .....	11.3	6.6	6.9	6.7	6.8
Miles per gallon of diesel oil .....	—	—	11.6	8.9	9.2
<b>Passengers and passenger miles:</b>					
Total number of passengers carried .....	30,000	825,000	2,787,000	8,629,000	12,271,000
Total number of passenger miles .....	1,699,000	4,719,000	39,517,000	186,789,000	232,724,000
Average number of passengers carried per mile .....	8.8	15.7	17.0	17.1	16.9
<b>Capacity:</b>					
Total capacity seat miles .....	2,090,000	8,480,000	82,431,000	577,860,000	670,861,000
Percentage of capacity utilized .....	81.3	55.7	47.9	32.3	34.7
<b>Revenue:</b>					
Total passenger revenue .....	\$ 51,000	107,000	650,000	5,075,000	5,883,000
Revenue per mile (total mileage travelled) .....	¢ 26.6	35.4	28.0	46.4	42.8
Revenue per passenger mile .....	¢ 3.0	2.3	1.6	2.7	2.5
Revenue per bus .....	\$ 3,200	4,500	7,400	29,500	19,600

Section V. Motor Bus Traffic Performed by British Columbia Registered Buses Within the Province  
 January 1, 1956 — December 31, 1956

TABLE 17. Mileage, Fuel, Passengers and Passenger Miles, Capacity and Revenue

	Passenger seating capacity				
	0-19	20-29	30-39	40 and over	Total
<b>Mileage:</b>					
Total mileage travelled .....	193,000	301,000	1,641,000	9,166,000	11,301,000
Average yearly mileage per bus .....	12,100	12,500	18,600	53,300	37,700
Average journey (average distance per passenger) .....	56.3	5.7	12.0	17.9	15.8
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	17,000	46,000	237,000	983,000	1,283,000
Total gallons of diesel oil consumed .....	—	—	5,000	325,000	330,000
Miles per gallon of gasoline .....	11.3	6.6	6.7	6.2	6.4
Miles per gallon of diesel oil .....	—	—	11.7	9.5	9.6
<b>Passengers and passenger miles:</b>					
Total number of passengers carried .....	30,000	825,000	2,689,000	8,296,000	11,840,000
Total number of passenger miles .....	1,699,000	4,719,000	32,341,000	148,729,000	187,489,000
Average number of passengers carried per mile .....	8.8	15.7	19.7	16.2	16.6
<b>Capacity:</b>					
Total capacity seat miles .....	2,090,000	8,480,000	58,234,000	486,679,000	555,483,000
Percentage of capacity utilized .....	81.3	55.7	55.5	30.6	33.8
<b>Revenue:</b>					
Total passenger revenue .....	\$ 51,000	107,000	449,000	4,360,000	4,967,000
Revenue per mile (total mileage travelled) .....	¢ 26.6	35.4	27.4	47.6	44.0
Revenue per passenger mile .....	¢ 3.0	2.3	1.4	2.9	2.6
Revenue per bus .....	\$ 3,200	4,500	5,100	25,300	16,600

**APPENDIX I**  
**Sampling Results**

Type of operation	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Estimated average British Columbia truck population January 1, 1956—December 31, 1956							
For hire .....	270	486	480	786	972	786	3,780
Private:							
Intercity .....	16,202	7,270	1,640	3,011	3,131	1,854	33,108
Urban .....	16,348	10,193	1,600	798	738	308	29,985
Farm .....	8,076	3,552	606	475	164	15	12,888
<b>Total</b> .....	<b>40,896</b>	<b>21,501</b>	<b>4,326</b>	<b>5,070</b>	<b>5,005</b>	<b>2,963</b>	<b>79,761</b>
Total number of trucks selected in samples							
For hire .....	15	51	79	123	307	243	818
Private:							
Intercity .....	888	793	263	474	993	594	4,005
Urban .....	897	1,110	255	128	234	101	2,725
Farm .....	440	389	96	75	52	5	1,057
<b>Total</b> .....	<b>2,240</b>	<b>2,343</b>	<b>693</b>	<b>800</b>	<b>1,586</b>	<b>943</b>	<b>8,605</b>
Number of questionnaires returned completed							
For hire .....	11*	32	44	83	155	142	467
Private:							
Intercity .....	448	392	117	212	456	227	1,852
Urban .....	399	503	93	52	88	42	1,177
Farm .....	248	188	36	32	17*	2*	523
<b>Total</b> .....	<b>1,106</b>	<b>1,115</b>	<b>290</b>	<b>379</b>	<b>716</b>	<b>413</b>	<b>4,019</b>
Number of sampled trucks reported not in use during survey week							
For hire .....	2	10	17	21	66	45	161
Private:							
Intercity .....	187	191	84	163	317	229	1,171
Urban .....	215	262	83	47	73	36	716
Farm .....	93	103	44	35	25	3	303
<b>Total</b> .....	<b>497</b>	<b>566</b>	<b>228</b>	<b>266</b>	<b>481</b>	<b>313</b>	<b>2,351</b>
Number of questionnaires returned incomplete and unusable							
For hire .....	2	5	13	15	54	27	116
Private:							
Intercity .....	169	131	36	59	125	68	588
Urban .....	181	207	38	16	37	12	491
Farm .....	65	63	8	3	5	—	144
<b>Total</b> .....	<b>417</b>	<b>406</b>	<b>95</b>	<b>93</b>	<b>221</b>	<b>107</b>	<b>1,339</b>
Number of questionnaires not returned (non respondents)							
For hire .....	—	4	5	4	32	29	74
Private:							
Intercity .....	84	79	26	40	95	70	394
Urban .....	102	138	41	13	36	11	341
Farm .....	34	35	8	5	5	—	87
<b>Total</b> .....	<b>220</b>	<b>256</b>	<b>80</b>	<b>62</b>	<b>168</b>	<b>110</b>	<b>896</b>

\* Statistics appearing in these cells throughout the report are not considered reliable.



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# MOTOR TRANSPORT TRAFFIC STATISTICS PROVINCE OF BRITISH COLUMBIA

1957

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PROVINCE OF BRITISH COLUMBIA

JANUARY 1 — DECEMBER 31, 1957

CHART — 1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

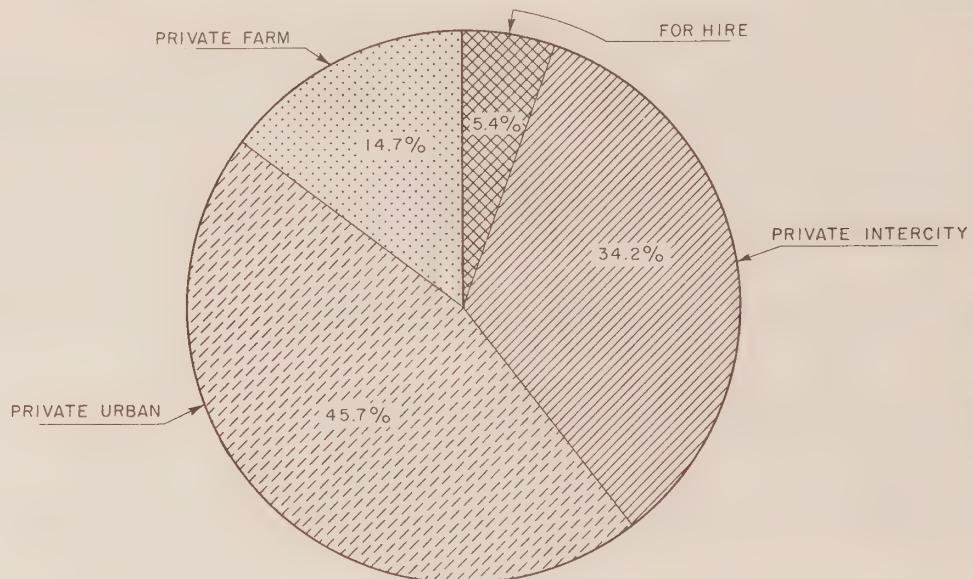
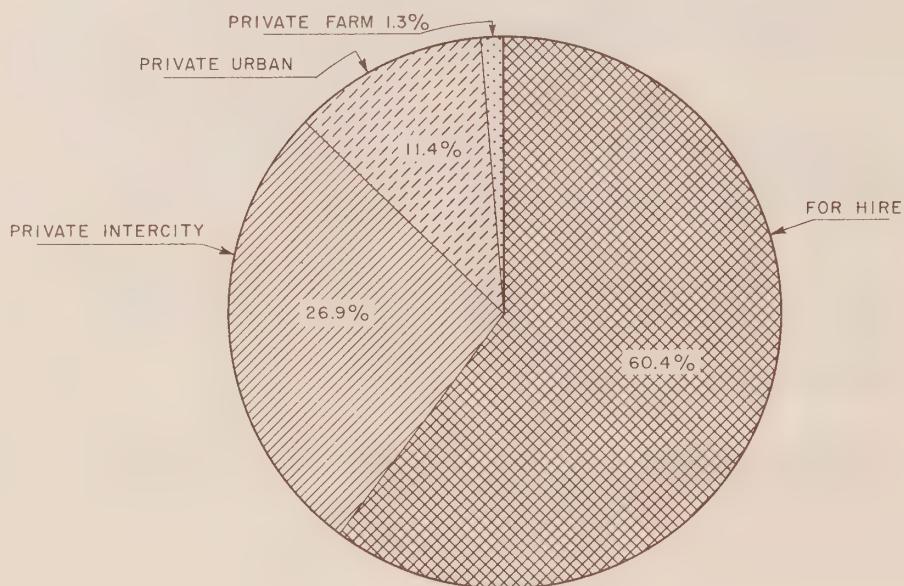


CHART — 2

NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

### Methods Followed in Survey

A sample of approximately 11 per cent of trucks and 18 per cent of intercity buses registered in British Columbia was selected for this annual survey. To allow for seasonal variations in motor transport traffic and to ensure that the sample vehicles represented current registrations in force, the survey was conducted in four quarterly segments with approximately one-fourth of the total sample selected each quarter. Vehicles selected were coded so that a particular vehicle would not be chosen more than once during each licence year. Each quarterly segment of the survey ran for a seven day period, Sunday through Saturday.

All trucks and buses registered in the province are represented with the following exceptions: (a) those not engaged in transportation services; (b) buses utilized for scheduled urban transit or school service; and, (c) military and other government owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample were stratified by function or type of operation and by gross vehicle weight groups. The four functional categories used were: for-hire, private intercity, private urban and private farm. For-hire trucks are those operated for compensation or gain anywhere in the province according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those which are operated predominantly within urban or metropolitan areas; and private farm trucks are those operated by farmers primarily to transport farm produce and supplies.

The distribution of sample vehicles by gross vehicle weight groups and by function was used to provide population estimates as at the time of the sample selection. The sample results were then expanded to represent the operations of all trucks and intercity buses registered in the province during the three month period by multiplying the sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week.

### Response to Survey

During the year survey questionnaires were sent to the owners or operators of 9,388 motor vehicles. Of this number 4,232 were returned completed and 2,510 vehicles were reported not used during the

During 1957, British Columbia altered its licensing system by dropping "L" and "K" carrier licences which were required for those vehicles classified in previous reports as private intercity and farm trucks respectively. Under the new regulations such vehicles together with other privately-operated trucks need only obtain a general "C" licence. It therefore became necessary to classify privately-operated vehicles into intercity, urban and farm categories according to their predominant type of operation as reported for the survey weeks. Vehicles in the sample, therefore, were classified into the four functional categories on the following basis:

For-hire	— "E", "G", "H" and "J" motor carrier licences.
Private-intercity	— "C" licensed vehicles operating predominantly outside urban areas.
Private-urban	— "C" licensed vehicles operating predominantly within urban areas.
Private-farm	— "C" licensed vehicles owned and operated by farmers.

It is known that some "C" licensed trucks are operated for compensation but these vehicles were not included in the for-hire category. The exact number of such vehicles was not known and it is difficult to obtain reliable estimates on the basis of replies to the survey questionnaire. As a result, the data shown throughout this report as "For-hire" is understated and that for the other categories is overstated by the extent of those for-hire vehicles with "C" licences.

### Expansion of Survey Results

The expanded data for each of the four quarterly surveys were added together to obtain provincial estimates for the twelve month period. Yearly operating averages such as average yearly mileage were calculated from the average number of vehicles registered during the twelve month period. All other operating ratios were obtained from the twelve month aggregates.

survey week. In addition, 1,734 questionnaires were returned with insufficient information and were therefore unusable. Non response to the survey totalled 912 or 9.7 per cent.

## Review of Survey Results

Excluding vehicles that do not perform transportation services, the average number of trucks registered in British Columbia during the year was 88,284. Of these 4,723 or 5.4 per cent were common or for-hire carriers; 30,229 or 34.2 per cent were private intercity vehicles; 40,313 or 45.7 per cent were private trucks operating predominantly within urban areas; and 13,019 or 14.7 per cent were private farm trucks. Changes in vehicle classification resulting from the previously mentioned alteration of the British Columbia licensing system during 1957 accounts for the large relative increase in the number of vehicles classified as private urban and a proportionate decrease in the number of private intercity vehicles as compared with 1956.

In the tables presented herein, blanks appear in a number of places where no vehicles for these particular weight classifications were chosen in any of the quarterly sample selections. It does not necessarily follow that there are no vehicles in the province belonging to these weight classifications.

### Section 1: Traffic Inside and Outside of the Province

Section 1 contains estimates of total traffic performed by all British Columbia registered trucks both inside and outside the province.

From the data presented in this Section it may be observed that although for-hire vehicles were only 5.4 per cent of all trucks registered in British Columbia, they accounted for over sixty per cent of the total net ton miles performed during 1957. This results not only from the comparatively high average yearly mileage of for-hire trucks operating inside and outside of British Columbia (19,600 as opposed to an average of 6,900 miles for all trucks) but also from the heavier average load carried (9.5 tons as compared with an average of 3.8 tons for all trucks). The heavier loads carried by for-hire trucks is to be expected since, as revealed in the appendix, about one-third of these vehicles have a gross vehicle weight of over 15 tons whereas less than three per cent of all other classes combined are in this upper weight group. The predominance of heavier vehicles in the for-hire class also explains the low miles per gallon of gasoline ratio of 6.1 as compared with a ratio of 10.8 for all vehicles.

### Section 2: Traffic Within the Province

This section presents estimates of traffic performed by British Columbia registered trucks entirely inside the province excluding the "outside the province" portion of interprovincial and international traffic as well as a small amount of traffic performed entirely outside the province. There is little signif-

icant difference between the data presented in Section 1 and Section 2 for private intercity vehicles. However, it is apparent that for-hire vehicles accumulated about one-third of their total ton miles outside of British Columbia.

### Section 3: Intraprovincial Traffic

This section includes estimates of for-hire and private intercity operations originating and terminating entirely inside the boundaries of British Columbia.

Analysing the distribution of total net ton miles by commodity, it can be seen that for-hire trucks are engaged primarily in transporting manufactured products and general freight. Of the total net ton miles performed by private intercity trucks, forest products accounted for 39.4 per cent while manufactured products amounted to about 32.3 per cent.

### Section 4: Interprovincial and International Traffic

Statistics of traffic performed by for-hire and private intercity trucks between British Columbia and other provinces and the United States are included in this section. On the present basis of sampling motor transport traffic, comparatively few British Columbia registered trucks engaging in interprovincial and international traffic are included in these surveys and as a result it has not been possible to obtain entirely reliable estimates of such traffic. Hence the data in this section of the report should be used with considerable caution.

These estimates indicate with some reasonableness, however, that half of the total tons of goods carried by British Columbia registered trucks in interprovincial and international traffic was with the United States; and, that over one-third of the total net ton miles performed and about one-fifth of the revenue earned by for-hire vehicles was in interprovincial and international operations.

### Sections 5 and 6: Intercity Bus Traffic

Section 5 presents statistics on intercity bus traffic both inside and outside the province while Section 6 covers traffic within the province only. In comparing these two sections, it can be seen that of a total of 216,175,000 passenger miles performed by British Columbia registered buses, about one-quarter or 49,108,000 passenger miles were accumulated entirely outside the boundaries of the province. Similarly about one-third or 1,848,000 dollars of a total of 5,832,000 dollars were earned while the buses were travelling outside provincial boundaries.

SECTION I. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE,  
JANUARY 1 - DECEMBER 31, 1957

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
<b>Mileage:</b>						
Total mileage travelled .....	'000	92,549	243,976	219,097	53,768	609,390
Average yearly mileage per truck .....		19,600	8,100	5,400	4,100	6,900
Average distance each ton was carried .....		34.4	18.8	6.5	13.0	19.9
Percentage of total mileage travelled empty .....		32.1	67.9	53.1	69.3	57.3
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	10,543	20,224	18,781	3,854	53,402
Miles per gallon of gasoline .....		6.1	11.9	11.7	14.0	10.8
Total gallons of diesel oil consumed .....	'000	5,306	637	—	—	5,943
Miles per gallon of diesel oil .....		5.3	4.9	—	—	5.2
Total gallons of other fuel consumed .....	'000	125	51	—	—	176
Miles per gallon of other fuel .....		5.0	8.1	—	—	5.9
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	17,252	14,088	17,183	983	49,506
Average weight carried <sup>1</sup> .....	ton	9.5	3.4	1.1	0.8	3.8
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	594,118	264,393	112,284	12,807	983,602
Average net ton miles per truck .....		125,800	8,700	2,800	1,000	11,100
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	1,207,447	745,132	433,303	65,007	2,450,889
Average capacity ton miles per truck .....		255,700	24,700	10,700	5,000	27,800
Percentage of capacity utilized .....		49.2	35.5	25.9	19.7	40.1
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	1,268,805	902,402	605,192	111,211	2,887,610
Average gross ton miles per truck .....		268,600	29,900	15,000	8,500	32,700
<b>Revenue:</b>						
Total revenue .....	\$'000	53,775	—	—	—	—
Revenue per ton mile .....	¢	9.1	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	58.1	—	—	—	—
Average revenue per truck .....	\$	11,400	—	—	—	—

TABLE 2. All Trucks by Gross Vehicle Weight Groups

	0 - 2½ tons 0 - 5,000 lbs.	2½ - 5 tons 5,001 - 10,000 lbs.	5 - 7½ tons 10,001 - 15,000 lbs.	7½ - 10 tons 15,001 - 20,000 lbs.	10 - 15 tons 20,001 - 30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total	
<b>Mileage:</b>								
Total mileage travelled .....	'000	231,323	187,461	30,124	29,162	48,801	82,519	609,390
Average yearly mileage per truck .....		5,700	6,300	5,800	7,100	10,400	20,800	6,900
Average distance each ton was carried .....		18.9	13.7	8.4	12.4	9.6	34.6	19.9
Percentage of total mileage travelled empty .....		72.2	59.6	40.1	37.7	39.5	33.9	57.3
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000	14,934	14,048	3,199	3,603	7,263	10,355	53,402
Miles per gallon of gasoline .....		15.5	13.3	9.4	8.1	6.5	5.0	10.8
Total gallons of diesel oil consumed .....	'000	—	—	—	—	195	5,748	5,943
Miles per gallon of diesel oil .....		—	—	—	—	6.3	5.2	5.2
Total gallons of other fuel consumed .....	'000	—	19	6	—	26	125	176
Miles per gallon of other fuel .....		—	12.7	6.9	—	5.0	5.0	5.9
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000	1,191	2,820	5,356	4,434	16,477	19,228	49,506
Average weight carried <sup>1</sup> .....	ton	0.4	0.5	2.5	3.0	5.3	12.2	3.8
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000	22,524	38,513	45,201	55,115	157,761	664,488	983,602
Average net ton miles per truck .....		600	1,300	8,800	13,500	33,600	167,200	11,100
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000	186,937	222,153	113,656	161,413	382,542	1,384,188	2,450,889
Average capacity ton miles per truck .....		4,600	7,400	22,100	39,400	81,400	348,200	27,800
Percentage of capacity utilized .....		12.0	17.3	39.8	34.1	41.2	48.0	40.1
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000	375,749	402,677	145,831	173,911	391,604	1,397,838	2,887,610
Average gross ton miles per truck .....		9,300	13,500	28,300	42,500	83,400	351,700	32,700

TABLE 3. For Hire Trucks by Gross Vehicle Weight Groups

	0 - 2½ tons	2½ - 5 tons	5 - 7½ tons	7½ - 10 tons	10 - 15 tons	Over 15 tons	Total	
<b>Mileage:</b>								
Total mileage travelled .....	'000	—	5,895	4,796	5,866	21,518	54,474	92,549
Average yearly mileage per truck .....		—	10,300	12,700	8,800	14,700	33,200	19,600
Average distance each ton was carried .....		—	16.8	9.9	16.6	9.5	66.4	34.4
Percentage of total mileage travelled empty .....		—	27.5	34.1	32.0	38.7	29.9	32.1
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000	—	507	519	757	3,287	5,473	10,543
Miles per gallon of gasoline .....		—	11.6	9.3	7.7	—	6.3	4.9
Total gallons of diesel oil consumed .....	'000	—	—	—	—	142	5,164	5,306
Miles per gallon of diesel oil .....		—	—	—	—	5.9	5.2	5.3
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	125	125
Miles per gallon of other fuel .....		—	—	—	—	—	5.0	5.0
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000	—	352	707	846	7,941	7,406	17,252
Average weight carried <sup>1</sup> .....	ton	—	1.4	2.2	3.5	5.7	12.9	9.5
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000	—	5,936	7,026	14,040	75,631	491,485	594,118
Average net ton miles per truck .....		—	10,300	18,600	21,100	51,700	299,100	125,800
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000	—	14,413	17,926	36,356	173,154	965,598	1,207,447
Average capacity ton miles per truck .....		—	25,100	47,400	54,800	118,300	587,700	255,700
Percentage of capacity utilized .....		—	41.2	39.2	38.6	43.7	50.9	49.2
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000	—	20,077	23,321	38,089	179,257	1,008,061	1,268,805
Average gross ton miles per truck .....		—	35,000	61,700	57,400	122,400	613,500	268,600
<b>Revenue:</b>								
Total revenue .....	\$'000	—	2,080	2,064	2,852	10,116	36,663	53,775
Revenue per ton mile .....	¢	—	35.0	29.4	20.3	13.4	7.5	9.1
Revenue per mile (total mileage travelled) .....	¢	—	35.3	43.0	48.6	47.0	67.3	58.1
Average revenue per truck .....	\$	—	3,600	5,500	4,300	6,900	22,300	11,400

TABLE 4. Private Intercity Trucks by Gross Vehicle Weight Groups

	0 - 2½ tons	2½ - 5 tons	5 - 7½ tons	7½ - 10 tons	10 - 15 tons	Over 15 tons	Total	
<b>Mileage:</b>								
Total mileage travelled .....	'000	110,602	72,146	9,957	12,524	17,678	21,069	243,976
Average yearly mileage per truck .....		6,900	8,100	7,500	10,800	11,700	15,500	8,100
Average distance each ton was carried .....		21.5	23.9	10.3	20.1	14.7	22.9	18.8
Percentage of total mileage travelled empty .....		76.8	75.0	51.7	45.8	40.7	40.4	67.9
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000	6,820	5,040	1,058	1,459	2,494	3,353	20,224
Miles per gallon of gasoline .....		16.2	14.3	9.4	8.6	6.9	5.5	11.9
Total gallons of diesel oil consumed .....	'000	—	—	—	—	53	584	637
Miles per gallon of diesel oil .....		—	—	—	—	7.3	4.7	4.9
Total gallons of other fuel consumed .....	'000	—	19	6	—	26	—	51
Miles per gallon of other fuel .....		—	12.7	6.9	—	5.0	—	8.1
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000	654	382	1,719	1,173	3,955	6,205	14,088
Average weight carried <sup>1</sup> .....	ton	0.6	0.5	3.7	3.5	5.5	11.3	3.4
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000	14,105	9,102	17,652	23,532	58,122	141,880	264,393
Average net ton miles per truck .....		900	1,000	13,200	20,300	38,500	104,200	8,700
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000	97,089	79,302	42,423	69,228	139,033	318,057	745,132
Average capacity ton miles per truck .....		6,100	8,900	31,800	59,600	92,200	233,700	24,700
Percentage of capacity utilized .....		14.5	11.5	41.6	34.0	41.8	44.6	35.5
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000	185,540	144,198	50,508	72,241	143,755	306,160	902,402
Average gross ton miles per truck .....		11,600	16,200	37,900	62,200	95,300	225,000	29,900

**SECTION II. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS WITHIN THE PROVINCE,  
JANUARY 1 - DECEMBER 31, 1957**

**TABLE 1. All Trucks by Type of Operation**

	For hire	Private			Total
		Intercity	Urban	Farm	
<b>Mileage:</b>					
Total mileage travelled .....	'000	73,197	239,645	219,097	53,768
Average yearly mileage per truck .....		15,500	7,900	5,400	4,100
Average distance each ton was carried .....		22.5	18.7	6.5	13.0
Percentage of total mileage travelled empty .....		34.9	68.7	53.1	69.3
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	'000	9,563	19,537	18,781	3,854
Miles per gallon of gasoline .....		6.1	12.1	11.7	14.0
Total gallons of diesel oil consumed .....	'000	2,773	586	—	—
Miles per gallon of diesel oil .....		5.2	5.0	—	—
Total gallons of other fuel consumed .....	'000	62	51	—	—
Miles per gallon of other fuel .....		5.0	8.1	—	—
<b>Weight of goods carried:</b>					
Total tons of goods carried .....	'000	17,161	14,054	17,183	983
Average weight carried <sup>1</sup> .....	ton	8.1	3.1	1.1	0.8
<b>Net ton miles:</b>					
Total net ton miles performed .....	'000	386,333	234,275	112,284	12,807
Average net ton miles per truck .....		81,800	7,800	2,800	1,000
<b>Capacity ton miles:</b>					
Total capacity ton miles <sup>2</sup> .....	'000	866,783	699,637	433,303	65,007
Average capacity ton miles per truck .....		183,500	23,100	10,700	5,000
Percentage of capacity utilized .....		44.6	33.5	25.9	19.7
<b>Gross ton miles:</b>					
Total gross ton miles <sup>3</sup> .....	'000	873,551	846,305	605,192	111,211
Average gross ton miles per truck .....		185,000	28,000	15,000	8,500
<b>Revenue:</b>					
Total revenue .....	\$'000	41,620	—	—	—
Revenue per ton mile .....	¢	10.8	—	—	—
Revenue per mile (total mileage travelled) .....	¢	56.9	—	—	—
Average revenue per truck .....	\$	8,800	—	—	—

**TABLE 2. All Trucks by Gross Vehicle Weight Groups**

	0 - 2½ tons 0 - 5,000 lbs.	2½ - 5 tons 5,001 - 10,000 lbs.	5 - 7½ tons 10,001 - 15,000 lbs.	7½ - 10 tons 15,001 - 20,000 lbs.	10 - 15 tons 20,001 - 30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	231,323	187,367	29,618	29,162	46,962	61,275
Average yearly mileage per truck .....		5,700	6,300	5,800	7,100	10,000	15,400
Average distance each ton was carried .....		18.9	13.7	8.4	12.4	9.1	22.7
Percentage of total mileage travelled empty..		72.2	59.6	39.9	37.7	40.2	38.3
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	14,934	14,039	3,139	3,603	7,007	9,013
Miles per gallon of gasoline .....		15.5	13.3	9.4	8.1	6.5	5.0
Total gallons of diesel oil consumed .....	'000	—	—	—	—	163	3,196
Miles per gallon of diesel oil .....		—	—	—	—	6.2	5.1
Total gallons of other fuel consumed .....	'000	—	19	6	—	28	62
Miles per gallon of other fuel .....		—	12.7	6.9	—	5.0	5.0
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	1,191	2,820	5,352	4,434	16,458	19,126
Average weight carried <sup>1</sup> .....	ton	0.4	0.5	2.5	3.0	5.3	11.5
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	22,524	38,496	44,834	55,115	149,620	435,110
Average net ton miles per truck .....		600	1,300	8,700	13,500	31,800	109,500
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	186,937	222,065	112,797	161,413	368,406	1,013,112
Average capacity ton miles per truck .....		4,600	7,400	21,900	39,400	78,400	254,900
Percentage of capacity utilized .....		12.0	17.3	39.7	34.1	40.6	42.9
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	375,749	402,497	143,203	173,911	374,537	966,362
Average gross ton miles per truck .....		9,300	13,500	27,800	42,500	79,700	243,100

TABLE 3. For Hire Trucks by Gross Vehicle Weight Groups

	0 - 2½ tons	2½ - 5 tons	5 - 7½ tons	7½ - 10 tons	10 - 15 tons	Over 15 tons	Total	
<b>Mileage:</b>								
Total mileage travelled .....	'000	—	5,895	4,796	5,866	21,062	35,578	73,197
Average yearly mileage per truck .....		—	10,300	12,700	8,800	14,400	21,700	15,500
Average distance each ton was carried .....		—	16.8	9.9	16.6	9.3	39.0	22.5
Percentage of total mileage travelled empty .....		—	27.5	34.1	32.0	38.8	34.3	34.9
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000	—	507	519	757	3,253	4,527	9,563
Miles per gallon of gasoline .....		—	11.6	9.3	7.7	6.3	4.7	6.1
Total gallons of diesel oil consumed .....	'000	—	—	—	—	110	2,663	2,773
Miles per gallon of diesel oil .....		—	—	—	—	5.7	5.2	5.2
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	62	62
Miles per gallon of other fuel .....		—	—	—	—	—	5.0	5.0
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000	—	352	707	846	7,941	7,315	17,161
Average weight carried <sup>1</sup> .....	ton	—	1.4	2.2	3.5	5.7	12.2	8.1
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000	—	5,936	7,026	14,040	73,712	285,619	386,333
Average net ton miles per truck .....		—	10,300	18,600	21,100	50,400	173,800	81,800
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000	—	14,413	17,926	36,356	169,455	628,633	866,783
Average capacity ton miles per truck .....		—	25,100	47,400	54,800	115,700	382,600	183,500
Percentage of capacity utilized .....		—	41.2	39.2	38.6	43.5	45.4	44.6
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000	—	20,077	23,321	38,089	175,152	616,912	873,551
Average gross ton miles per truck .....		—	35,000	61,700	57,400	119,600	375,500	185,000
<b>Revenue:</b>								
Total revenue .....	\$'000	—	2,080	2,064	2,852	9,964	24,660	41,620
Revenue per ton mile .....	¢	—	35.0	29.4	20.3	13.5	8.6	10.8
Revenue per mile (total mileage travelled) .....	¢	—	35.3	43.0	48.6	47.3	69.3	56.9
Average revenue per truck .....	\$	—	3,600	5,500	4,300	6,800	15,000	8,800

TABLE 4. Private Intercity Trucks by Gross Vehicle Weight Groups

	0 - 2½ tons	2½ - 5 tons	5 - 7½ tons	7½ - 10 tons	10 - 15 tons	Over 15 tons	Total	
<b>Mileage:</b>								
Total mileage travelled .....	'000	110,602	72,052	9,451	12,524	16,295	18,721	239,645
Average yearly mileage per truck .....		6,900	8,100	7,100	10,800	10,800	13,800	7,900
Average distance each ton was carried .....		21.5	23.8	10.1	20.1	13.2	19.1	16.7
Percentage of total mileage travelled empty .....		76.8	75.1	51.7	45.8	42.5	42.9	68.7
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000	6,820	5,031	998	1,459	2,272	2,957	19,537
Miles per gallon of gasoline .....		16.2	14.3	9.4	8.6	6.9	5.5	12.1
Total gallons of diesel oil consumed .....	'000	—	—	—	—	53	533	586
Miles per gallon of diesel oil .....		—	—	—	—	7.3	4.7	5.0
Total gallons of other fuel consumed .....	'000	—	19	6	—	26	—	51
Miles per gallon of other fuel .....		—	12.7	6.9	—	5.0	—	8.1
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000	654	382	1,715	1,173	3,936	6,194	14,054
Average weight carried <sup>1</sup> .....	ton	0.6	0.5	3.8	3.5	5.5	11.1	3.1
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000	14,105	9,085	17,285	23,532	51,900	118,368	234,275
Average net ton miles per truck .....		900	1,000	13,000	20,300	34,400	87,000	7,800
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000	97,089	79,214	41,564	69,228	128,596	283,946	699,637
Average capacity ton miles per truck .....		6,100	8,900	31,200	59,600	85,300	208,600	23,100
Percentage of capacity utilized .....		14.5	11.5	41.6	34.0	40.4	41.7	33.5
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000	185,540	144,018	47,880	72,241	130,793	265,833	846,305
Average gross ton miles per truck .....		11,600	16,200	35,900	62,200	86,700	195,300	28,000

TABLE 5. Private Urban Trucks by Gross Vehicle Weight Groups

	0- 2½ tons	2½ - 5 tons	5- 7½ tons	7½ - 10 tons	10- 15 tons	Over 15 tons	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	88,812	91,678	12,633	9,634	9,364	6,976
Average yearly mileage per truck .....		5,100	5,800	4,600	5,100	5,700	7,300
Average distance each ton was carried .....		17.6	11.1	6.4	6.9	5.1	5.5
Percentage of total mileage travelled empty .....		66.8	47.4	30.7	29.0	39.1	46.2
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	5,991	7,218	1,359	1,233	1,451	1,529
Miles per gallon of gasoline .....		14.8	12.7	9.3	7.8	6.5	4.6
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	—
Miles per gallon of diesel oil .....		—	—	—	—	—	—
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	318	1,780	2,610	2,312	4,546	5,617
Average weight carried <sup>1</sup> .....	ton	0.2	0.4	1.9	2.3	4.1	8.3
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	5,602	19,788	16,750	15,837	23,184	31,123
Average net ton miles per truck .....		300	1,300	6,100	8,300	14,100	32,400
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	65,081	106,466	42,915	49,921	68,387	100,533
Average capacity ton miles per truck .....		3,800	6,800	15,700	26,200	41,400	104,500
Percentage of capacity utilized .....		8.6	18.6	39.0	31.7	33.9	31.0
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	137,878	200,403	59,172	57,327	66,795	83,617
Average gross ton miles per truck .....		7,900	12,700	21,700	30,100	40,500	86,900

TABLE 6. Private Farm Trucks by Gross Vehicle Weight Groups

	0- 2½ tons	2½ - 5 tons	5- 7½ tons	7½ - 10 tons	10- 15 tons	Over 15 tons	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	31,909	17,742	2,738	1,138	241	—
Average yearly mileage per truck .....		4,400	3,800	3,800	3,200	3,200	—
Average distance each ton was carried .....		12.9	12.0	11.8	16.6	23.5	—
Percentage of total mileage travelled empty .....		71.1	70.3	51.5	53.0	49.7	—
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	2,123	1,283	263	154	31	—
Miles per gallon of gasoline .....		15.0	13.8	10.4	7.4	7.8	—
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	—
Miles per gallon of diesel oil .....		—	—	—	—	—	—
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	219	306	320	103	35	—
Average weight carried <sup>1</sup> .....	ton	0.3	0.7	2.8	3.2	6.8	—
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	2,817	3,687	3,773	1,706	824	—
Average net ton miles per truck .....		400	800	5,300	4,700	10,800	—
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	24,767	21,972	10,392	5,908	1,968	—
Average capacity ton miles per truck .....		3,400	4,700	14,500	16,400	25,900	—
Percentage of capacity utilized .....		11.4	16.8	36.3	28.9	41.8	—
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	52,331	37,999	12,830	6,254	1,797	—
Average gross ton miles per truck .....		7,300	8,100	17,900	17,400	23,700	—

<sup>1</sup> Ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual total number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

TABLE 7. Selected Statistics of Intercity Traffic by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
10,000 lbs. and under .....	352	4,271	5,936	1.4	16.8	2,080	35.0
10,001-20,000 lbs. .....	1,553	7,147	21,066	2.9	13.6	4,916	23.3
20,001-30,000 lbs. .....	7,941	12,882	73,712	5.7	9.3	9,964	13.5
30,001-50,000 lbs. .....	5,128	8,543	82,220	9.6	16.0	9,170	11.2
50,001 lbs. and over .....	2,187	14,833	203,399	13.7	93.0	15,490	7.6
<b>Total</b> .....	<b>17,161</b>	<b>47,676</b>	<b>386,333</b>	<b>8.1</b>	<b>22.5</b>	<b>41,620</b>	<b>10.8</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under .....	1,036	43,593	23,190	0.5	22.4		
10,001-20,000 lbs. .....	2,888	11,361	40,817	3.6	14.1		
20,001-30,000 lbs. .....	3,936	9,368	51,900	5.5	13.2		
30,001-50,000 lbs. .....	4,886	7,890	77,212	9.8	15.8		
50,001 lbs. and over .....	1,308	2,804	41,156	14.7	31.5		
<b>Total</b> .....	<b>14,054</b>	<b>75,016</b>	<b>234,275</b>	<b>3.1</b>	<b>16.7</b>		

SECTION III. INTRAPROVINCIAL TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS  
JANUARY 1-DECEMBER 31, 1957

TABLE 1. Selected Statistics by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
10,000 lbs. and under .....	74	2,111	3,701	1.8	50.0	531	14.3
10,001-20,000 lbs. .....	645	2,822	11,060	3.9	17.1	1,904	17.2
20,001-30,000 lbs. .....	3,941	8,516	52,247	6.1	13.3	6,118	11.7
30,001-50,000 lbs. .....	2,162	6,130	58,844	9.6	27.2	5,955	10.1
50,001 lbs. and over .....	1,151	11,120	155,451	14.0	135.0	12,246	7.9
<b>Total</b> .....	<b>7,973</b>	<b>30,699</b>	<b>281,303</b>	<b>9.2</b>	<b>35.3</b>	<b>26,754</b>	<b>9.5</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under .....	936	39,612	21,369	0.5	22.8		
10,001-20,000 lbs. .....	2,713	10,793	39,579	3.7	14.6		
20,001-30,000 lbs. .....	3,748	9,023	50,402	5.6	13.4		
30,001-50,000 lbs. .....	4,216	6,920	68,395	9.9	16.2		
50,001 lbs. and over .....	1,133	2,115	29,875	14.1	26.4		
<b>Total</b> .....	<b>12,746</b>	<b>68,463</b>	<b>209,620</b>	<b>3.1</b>	<b>16.4</b>		

TABLE 2. Selected Statistics by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	145	787	6,453	8.2	44.5	636	9.9
Animals and animal products .....	339	2,717	20,487	7.5	60.4	1,522	7.4
Mine products .....	4,198	2,516	22,835	9.1	5.4	2,073	9.1
Forest products .....	1,296	3,533	41,764	11.8	32.2	3,581	8.6
Manufactures and miscellaneous .....	1,458	12,702	115,213	9.1	79.0	11,090	9.6
N.O.S. general freight .....	537	8,444	74,551	8.8	138.9	7,852	10.5
<b>Total</b> .....	<b>7,973</b>	<b>30,699</b>	<b>281,303</b>	<b>9.2</b>	<b>35.3</b>	<b>26,754</b>	<b>9.5</b>
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	324	2,264	6,641	2.9	20.5		
Animals and animal products .....	136	2,895	4,869	1.7	35.9		
Mine products .....	5,790	5,055	36,926	7.3	6.4		
Forest products .....	4,106	11,184	82,604	7.4	20.1		
Manufactures and miscellaneous .....	1,813	40,133	67,809	1.7	37.4		
N.O.S. general freight .....	577	6,932	10,771	1.6	18.7		
<b>Total</b> .....	<b>12,746</b>	<b>68,463</b>	<b>209,620</b>	<b>3.1</b>	<b>16.4</b>		

**SECTION IV. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS  
JANUARY 1—DECEMBER 31, 1957**

TABLE 1. Tons of Goods Carried

Origin or destination	For hire			Private intercity			Total		
	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total
'000 tons									
Quebec .....	—	1	1	—	—	—	—	—	1
Ontario .....	13	10	23	3	—	3	16	10	26
Manitoba .....	—	—	—	2	—	2	2	—	2
Saskatchewan .....	—	—	—	—	—	—	—	—	—
Alberta .....	129	32	161	17	20	37	146	52	198
British Columbia .....	—	—	—	—	—	—	—	—	—
United States .....	85	153	238	6	22	28	91	175	266
Alaska .....	—	3	3	—	—	—	—	3	3
Yukon Territory .....	—	—	—	2	20	22	2	20	22
<b>Total</b> .....	<b>227</b>	<b>199</b>	<b>426</b>	<b>30</b>	<b>62</b>	<b>92</b>	<b>257</b>	<b>261</b>	<b>518</b>

TABLE 2. Selected Statistics by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles	\$'000	¢	
10,000 lbs. and under .....	—	—	—	—	—	—	—
10,001-20,000 lbs. ....	—	—	—	—	—	—	—
20,001-30,000 lbs. ....	16	417	2,444	5.9	158.8	220	9.0
30,001-50,000 lbs. ....	35	3,730	29,741	8.0	853.1	1,149	3.9
50,001 lbs. and over .....	375	10,224	173,699	17.0	462.9	9,631	5.5
<b>Total</b> .....	<b>426</b>	<b>14,371</b>	<b>205,884</b>	<b>14.3</b>	<b>483.8</b>	<b>11,000</b>	<b>5.3</b>
Private intercity							
Weight of goods carried	Weight of goods carried			Total net ton miles	Average weight carried	Average distance per ton	
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under .....	1	102	38	0.4	48.2		
10,001-20,000 lbs. ....	4	177	356	2.0	90.0		
20,001-30,000 lbs. ....	13	649	3,636	5.6	267.6		
30,001-50,000 lbs. ....	52	2,172	20,750	9.6	401.9		
50,001 lbs. and over .....	22	420	7,528	17.9	335.9		
<b>Total</b> .....	<b>92</b>	<b>3,520</b>	<b>32,308</b>	<b>9.2</b>	<b>349.8</b>		

TABLE 3. Selected Statistics by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles	\$'000	¢	
Agricultural products .....	45	1,931	37,014	19.2	834.5	1,124	3.0
Animals and animal products.....	38	499	12,674	25.4	335.1	837	6.6
Mine products .....	4	34	589	17.5	143.0	22	3.8
Forest products .....	61	413	7,438	18.0	122.2	315	4.2
Manufactures and miscellaneous.....	230	9,482	118,645	12.5	515.4	5,729	4.8
N.O.S. general freight .....	48	2,012	29,524	14.7	612.9	2,973	10.1
<b>Total</b> .....	<b>426</b>	<b>14,371</b>	<b>205,884</b>	<b>14.3</b>	<b>483.8</b>	<b>11,000</b>	<b>5.3</b>
Private intercity							
Weight of goods carried	Weight of goods carried			Total net ton miles	Average weight carried	Average distance per ton	
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	8	245	1,291	5.3	168.3		
Animals and animal products.....	6	313	5,478	17.5	934.3		
Mine products.....	20	441	4,579	10.4	222.1		
Forest products .....	29	497	4,676	9.4	161.1		
Manufactures and miscellaneous.....	25	1,428	13,570	9.5	551.0		
N.O.S. general freight .....	4	596	2,714	4.6	594.6		
<b>Total</b> .....	<b>92</b>	<b>3,520</b>	<b>32,308</b>	<b>9.2</b>	<b>349.8</b>		

**SECTION V. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED BUSES INSIDE AND OUTSIDE THE PROVINCE**  
**JANUARY 1 - DECEMBER 31, 1957**

**TABLE 1. By Passenger Seating Capacity**

	0 - 19	20 - 29	30 - 39	40 and over	Total
<b>Mileage:</b>					
Total mileage travelled ..... '000	367	201	940	12,611	14,119
Average yearly mileage per bus ..... 30,600	30,600	12,500	15,700	63,100	49,000
Average journey (average distance per passenger) .... 34.2		5.7	38.1	27.2	26.3
<b>Fuel:</b>					
Total gallons of gasoline consumed ..... '000	33	31	124	992	1,180
Miles per gallon of gasoline ..... 11.1		6.5	6.7	5.3	5.7
Total gallons of diesel oil consumed ..... '000	—	—	19	801	820
Miles per gallon of diesel oil ..... —		—	5.7	9.2	9.1
Total gallons of other fuel consumed ..... '000	—	—	—	—	—
Miles per gallon of other fuel ..... —		—	—	—	—
<b>Passengers and passenger miles:</b>					
Total number of passengers carried ..... '000	25	550	385	7,268	8,228
Total number of passenger miles ..... '000	867	3,146	14,671	197,491	216,175
Average number of passengers carried per mile ..... 2.4		15.7	15.6	15.7	15.3
<b>Capacity:</b>					
Total capacity seat miles ..... '000	2,603	5,653	33,743	666,367	708,366
Percentage of capacity utilized ..... 33.3		55.6	43.5	29.6	30.5
<b>Revenue:</b>					
Total passenger revenue ..... \$'000	56	71	398	5,307	5,832
Revenue per mile (total mileage travelled) ..... \$	15.2	35.5	42.3	42.1	41.3
Revenue per passenger mile ..... \$	6.5	2.3	2.7	2.7	2.7
Revenue per bus ..... \$	4,700	4,500	6,600	26,500	20,300

**SECTION VI. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED BUSES WITHIN THE PROVINCE**  
**JANUARY 1 - DECEMBER 31, 1957**

**TABLE 1. By Passenger Seating Capacity**

	0 - 19	20 - 29	30 - 39	40 and over	Total
<b>Mileage:</b>					
Total mileage travelled ..... '000	367	201	835	8,220	9,623
Average yearly mileage per bus ..... 30,600		12,500	13,900	41,100	33,400
Average journey (average distance per passenger) .... 34.2		5.7	37.6	22.7	22.1
<b>Fuel:</b>					
Total gallons of gasoline consumed ..... '000	33	31	124	969	1,157
Miles per gallon of gasoline ..... 11.1		6.5	6.7	5.2	5.6
Total gallons of diesel oil consumed ..... '000	—	—	—	341	341
Miles per gallon of diesel oil ..... —		—	—	9.2	9.2
Total gallons of other fuel consumed ..... '000	—	—	—	—	—
Miles per gallon of other fuel ..... —		—	—	—	—
<b>Passengers and passenger miles:</b>					
Total number of passengers carried ..... '000	25	550	327	6,645	7,547
Total number of passenger miles ..... '000	867	3,146	12,302	150,752	167,067
Average number of passengers carried per mile ..... 2.4		15.7	14.7	18.3	17.4
<b>Capacity:</b>					
Total capacity seat miles ..... '000	2,603	5,653	29,826	438,913	476,995
Percentage of capacity utilized ..... 33.3		55.6	41.2	34.3	35.0
<b>Revenue:</b>					
Total passenger revenue ..... \$'000	56	71	345	3,512	3,984
Revenue per mile (total mileage travelled) ..... \$	15.2	35.5	41.3	42.7	41.4
Revenue per passenger mile ..... \$	6.5	2.3	2.8	2.3	2.4
Revenue per bus ..... \$	4,700	4,500	5,700	17,600	13,800

**APPENDIX**  
**Sampling Results**

Type of operation	Gross vehicle weight groups							Total
	0 - 2½ tons 0 - 5,000 lbs.	2½ - 5 tons 5,001 - 10,000 lbs.	5 - 7½ tons 10,001 - 15,000 lbs.	7½ - 10 tons 15,001 - 20,000 lbs.	10 - 15 tons 20,001 - 30,000 lbs.	Over 15 tons 30,001 lbs. and over		
Estimated average British Columbia truck population January 1 - December 31, 1957								
For hire .....	-	574	378	664	1,464	1,643	4,723	
Private:								
Intercity .....	15,985	8,880	1,333	1,162	1,508	1,361	30,229	
Urban .....	17,351	15,719	2,725	1,906	1,650	962	40,313	
Farm .....	7,195	4,664	715	360	76	9	13,019	
<b>Total</b> .....	<b>40,531</b>	<b>29,837</b>	<b>5,151</b>	<b>4,092</b>	<b>4,698</b>	<b>3,975</b>	<b>88,284</b>	
Total number of trucks selected in samples								
For hire .....	-	66	80	137	411	444	1,138	
Private:								
Intercity .....	908	902	195	184	472	439	3,100	
Urban .....	994	1,590	399	298	515	281	4,077	
Farm .....	410	472	104	60	24	3	1,073	
<b>Total</b> .....	<b>2,312</b>	<b>3,630</b>	<b>778</b>	<b>679</b>	<b>1,422</b>	<b>1,167</b>	<b>9,388</b>	
Number of questionnaires returned completed								
For hire .....	-	39	58	74	239	242	652	
Private:								
Intercity .....	421	415	70	74	178	177	1,335	
Urban .....	455	725	144	121	191	119	1,755	
Farm .....	200	221	37	24	8	-	490	
<b>Total</b> .....	<b>1,076</b>	<b>1,400</b>	<b>309</b>	<b>293</b>	<b>616</b>	<b>538</b>	<b>4,232</b>	
Number of sampled trucks reported not in use during the survey week								
For hire .....	-	8	11	42	102	98	261	
Private:								
Intercity .....	206	206	70	62	170	143	857	
Urban .....	224	371	141	99	191	91	1,117	
Farm .....	90	109	40	21	13	2	275	
<b>Total</b> .....	<b>520</b>	<b>394</b>	<b>262</b>	<b>224</b>	<b>476</b>	<b>334</b>	<b>2,510</b>	
Number of questionnaires returned incomplete and unusable								
For hire .....	-	11	9	15	48	65	148	
Private:								
Intercity .....	187	188	34	30	80	75	594	
Urban .....	208	331	69	49	85	48	790	
Farm .....	78	94	17	10	2	1	202	
<b>Total</b> .....	<b>473</b>	<b>624</b>	<b>129</b>	<b>104</b>	<b>215</b>	<b>189</b>	<b>1,734</b>	
Number of questionnaires not returned (non-respondents)								
For hire .....	-	8	2	6	22	39	77	
Private:								
Intercity .....	94	93	21	18	44	44	314	
Urban .....	107	163	45	29	48	23	415	
Farm .....	42	48	10	5	1	-	106	
<b>Total</b> .....	<b>243</b>	<b>312</b>	<b>78</b>	<b>58</b>	<b>115</b>	<b>106</b>	<b>912</b>	

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CANADA

## **MOTOR TRANSPORT TRAFFIC**

### **PROVINCE OF BRITISH COLUMBIA**

**1958**



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PROVINCE OF BRITISH COLUMBIA

JANUARY 1-DECEMBER 31, 1958

CHART - 1 TRUCK REGISTRATIONS BY TYPE OF OPERATION

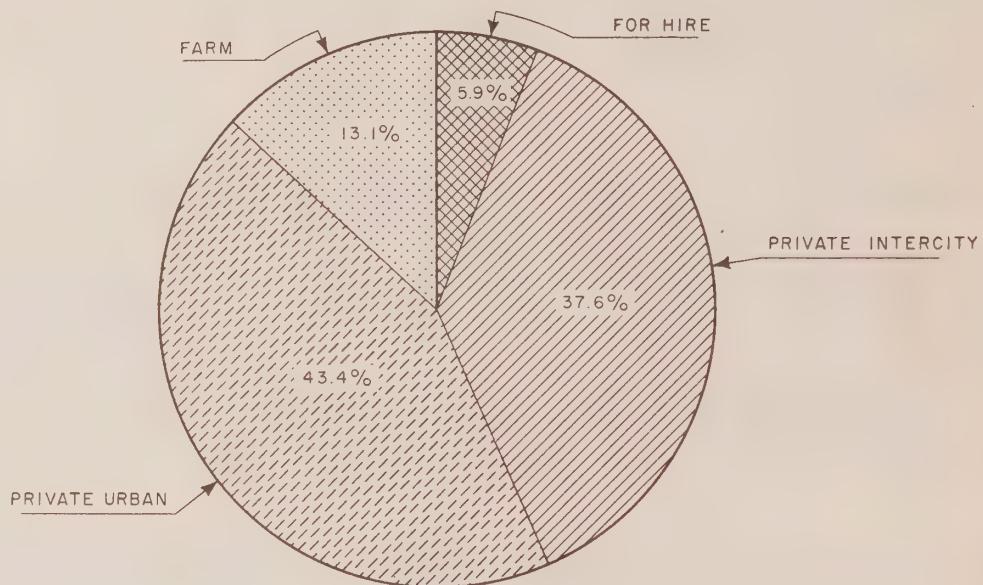
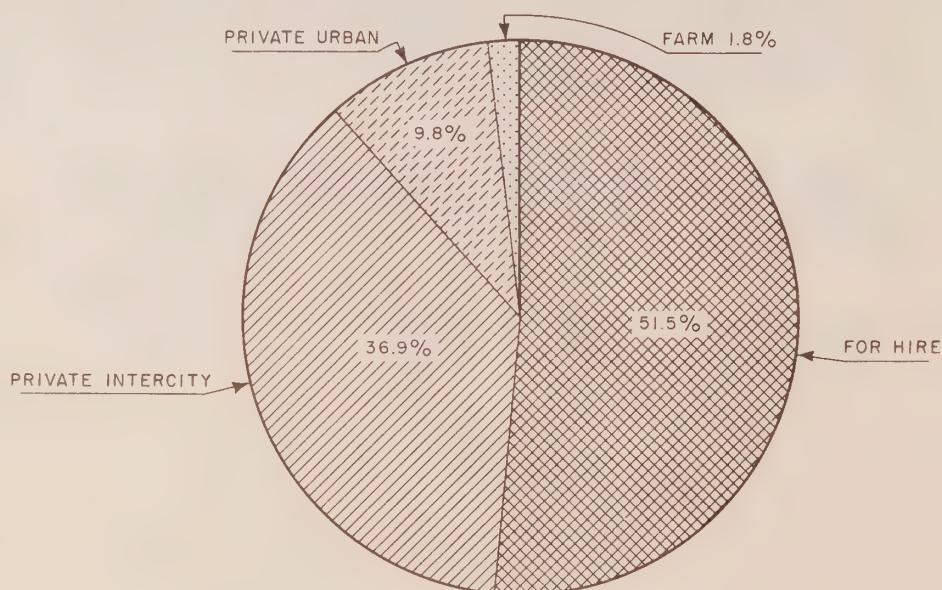


CHART - 2 NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1958 annual report of motor transport traffic in the Province of British Columbia is based upon a sample of approximately 10 per cent of trucks and 51 per cent of intercity buses registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations, the sample was selected in four quarterly segments with approximately one-fourth of the total selected each quarter. Beginning in the second quarter of 1958, each quarterly sample was spread over three survey weeks with one-third of the sample being used for a seven day period, Sunday through Saturday, per month. Previously each quarterly sample was concentrated in one survey week so that the total sample for the year was spread over only four weeks. Statistics compiled for 1958, therefore, have been based on surveys spread over ten weeks. As a result a much better representation of truck traffic has been obtained.

All trucks and buses registered in the province are represented except: (a) those not engaged in transportation services; (b) buses utilized for scheduled urban transit and school buses; (c) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details

of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight groups. The four functional categories used are: for-hire, private intercity, private urban and farm. For-hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated predominantly within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

Since for-hire trucks ("E", "G", "H", "J" carriers) are the only class to be registered separately in British Columbia, it was necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" and "farm".

Further information on the history and the organization of motor transport traffic surveys may be found in the report entitled "Motor Transport Traffic Statistics, National Estimates, 1957".

### Expansion of Survey Results

The distribution of sample vehicles by gross vehicle weight groups and by type of operation was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the sample

results by the inverse ratio of the sample to the population and by the ratio of three months to one week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

### Review of Survey Results

Excluding vehicles which do not perform transportation services, the average number of trucks registered in British Columbia during the year was 89,876. Of these, 5,301 or 5.9 per cent were for-hire carriers; 33,792 or 37.6 per cent were private intercity vehicles; 39,043 or 43.4 per cent were private vehicles operating predominantly within urban areas; and 11,740 or 13.1 per cent were farm trucks.

For-hire truck transport statistics in 1958 indicate a lower level of activity as compared with 1957. This has been caused partly by work stoppages occurring in the province during the year.

In the tables presented herein blanks appear in a number of weight classifications where no vehicles were chosen in any of the quarterly sample selections. It does not necessarily follow that there are no vehicles in the province belonging to these classifications.

### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed by all British Columbia registered trucks both inside and outside the province.

Although comprising only 5.9 per cent of British Columbia's truck population, for-hire vehicles accounted for 51.5 per cent of total net ton miles and 32.9 per cent of total tons of goods carried during 1958. This results from the high average yearly mileage of these trucks, 16,500 as compared with 7,400 miles for all trucks, and from the heavy average load carried (8.8 tons as compared with 4.2 for all trucks). The heavier loads carried by for-hire trucks are to be expected since almost two-thirds of these vehicles have a gross weight of over 10 tons. The predominance of heavier vehicles in the for-hire class also explains the low miles per gallon of gasoline estimate of 6.2 as compared with a ratio of 10.8 for all trucks.

Some trucks in British Columbia are used essentially for personal transportation. Such vehicles account for about 28 per cent of the total mileage travelled by British Columbia registered trucks.

## Section II: Traffic Within the Province

This section presents estimates of traffic performed by British Columbia registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for-hire vehicles accumulated 34.5 per cent and private intercity 35.1 per cent of their total net ton miles outside of British Columbia.

## Section III: Intraprovincial Traffic

This section includes statistics of for-hire and private intercity operations originating and terminating entirely inside the boundaries of British Columbia.

It is estimated that of the total net ton miles performed by for-hire trucks, manufactured products accounted for 33.9 per cent. Forest products accounted for 39.2 per cent of the total net ton miles performed by private intercity vehicles.

## Section IV: Interprovincial and International Traffic

Estimates indicate that almost one-half of the total tons of goods carried by British Columbia registered for-hire trucks in interprovincial and international traffic was transferred to or from the United States; and, that more than one-third of the total net ton miles performed and almost one-fourth of the revenue earned by for-hire trucks was in interprovincial and international traffic.

## Sections V and VI: Intercity Bus Traffic

Section V provides estimates of intercity bus traffic both inside and outside the province while Section VI covers traffic within the province only. Comparing these two sections it is apparent that almost 20 per cent of the total passenger miles performed and 18 per cent of the revenue earned by British Columbia registered buses was estimated to be outside the boundaries of the province. This situation occurs because a large percentage of buses were licensed in other provinces as well and travelled extensively outside the province during the survey weeks.

## Appendix 1

During the year survey questionnaires were sent to the owners or operators of 9,408 trucks. Of this number 4,544 questionnaires were returned completed and 2,274 trucks were reported not used during the survey week. In addition 1,439 questionnaires were returned with insufficient information. Non-response totalled 1,151 or 12.2 per cent.

## Reliability of Motor Transport Traffic Statistics

### (a) Non-Sampling Variability

A certain amount of variance in motor transport traffic statistics will arise from non-sampling factors including improper reporting by the respondent due to misinterpretation of questions or deliberate misstatements. Also, the respondent may not keep accurate records of traffic performed. The effect of these factors cannot be measured without a further follow-up and re-enumeration of the statistics reported.

### (b) Sampling Variability

Estimates of the sampling error have, however, been calculated for the following class totals (see Appendix 2): (1) mileage travelled (2) weight of

goods carried (3) net ton miles and (4) revenue earned. These calculations have been made using a confidence limit of two standard deviations (i.e. allowing 95 out of 100 chances that the stated range contains the true value). The stability of the data varies according to the type of statistics involved and the number of trucks reporting in each category. Hence statistics of class totals are considered more reliable than those for any particular weight group. Of the various types of data presented, the most stable statistics were "total mileage travelled" while variability seemed greatest for "weight of goods carried". This is understandable when we consider that trucks may travel with little or no load so that there is a naturally wide range of weights carried.

November 5, 1959.

**SECTION 1. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE**  
**JANUARY 1-DECEMBER 31, 1958**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
<b>Mileage:</b>					
Total mileage travelled .....	'000	87,599	274,399	244,092	57,256
Average yearly mileage per truck .....		16,500	8,100	6,300	4,900
Average distance each ton was carried .....		43.2	30.8	8.7	18.1
Percentage of total mileage travelled empty .....		29.7	67.6	65.1	74.3
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	'000	11,209	23,579	19,892	4,344
Miles per gallon of gasoline.....		6.2	11.3	12.3	13.2
Total gallons of diesel oil consumed .....	'000	3,318	1,535	—	—
Miles per gallon of diesel oil.....		5.3	5.2	—	—
Total gallons of other fuel consumed .....	'000	—	172	—	—
Miles per gallon of other fuel.....		—	6.1	—	—
<b>Weight of goods carried:</b>					
Total tons of goods carried .....	'000	12,547	12,601	11,890	1,050
Average weight carried <sup>1</sup> .....	ton	8.8	4.4	1.2	1.3
<b>Net ton miles:</b>					
Total net ton miles performed .....	'000	541,869	387,989	103,141	19,005
Average net ton miles per truck .....		102,200	11,500	2,600	1,600
<b>Capacity ton miles:</b>					
Total capacity ton miles <sup>2</sup> .....	'000	1,118,113	948,131	434,395	79,626
Average capacity ton miles per truck .....		210,900	28,100	11,100	6,800
Percentage of capacity utilized .....		48.5	40.9	23.7	23.9
<b>Gross ton miles:</b>					
Total gross ton miles <sup>3</sup> .....	'000	1,235,692	1,155,635	666,107	124,923
Average gross ton miles per truck .....		233,100	34,200	17,100	10,600
<b>Revenue:</b>					
Total revenue .....	\$'000	47,742	—	—	—
Revenue per ton mile.....	¢	8.8	—	—	—
Revenue per mile (total mileage travelled).....	¢	54.5	—	—	—
Average revenue per truck .....	\$	9,000	—	—	—
Average annual population .....		5,301	33,792	39,043	11,740
					89,876

TABLE 2. All Trucks by Gross Vehicle Weight Groups

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	250,266	228,868	28,675	20,047	47,634	89,856
Average yearly mileage per truck .....		6,200	7,100	5,600	6,200	9,900	21,000
Average distance each ton was carried .....		17.2	18.6	14.1	12.7	13.1	44.8
Percentage of total mileage travelled empty .....		79.6	66.7	37.8	35.9	38.1	29.4
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	16,083	18,315	3,033	2,504	7,304	11,785
Miles per gallon of gasoline.....		15.6	12.4	9.5	7.9	6.5	5.4
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	4,853
Miles per gallon of diesel oil.....		—	—	—	—	—	5.3
Total gallons of other fuel consumed .....	'000	—	—	—	21	12	139
Miles per gallon of other fuel.....		—	—	—	8.2	5.8	5.8
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	745	2,584	3,139	3,145	11,484	16,991
Average weight carried <sup>1</sup> .....	ton	0.3	0.6	2.5	3.1	5.1	12.0
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	12,816	42,930	44,219	39,995	150,855	761,189
Average net ton miles per truck .....		300	1,300	8,600	12,400	31,200	178,100
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	186,990	272,960	113,255	109,984	382,042	1,515,034
Average capacity ton miles per truck .....		4,700	8,500	21,900	34,100	79,000	354,500
Percentage of capacity utilized .....		6.9	15.7	39.0	36.4	39.5	50.2
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	396,522	544,146	139,033	118,497	380,857	1,603,302
Average gross ton miles per truck .....		9,900	18,900	28,900	36,700	78,800	375,100
Average annual population .....		40,216	32,183	5,163	3,226	4,834	4,274
							89,876

TABLE 3. Selected Statistics by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
20,000 lbs. and under.....	'000 tons	'000	'000	tons	miles	\$'000	¢
1,332	10,723	18,636	1.7	14.0	6,008	32.2	
20,001-30,000 lbs.....	4,157	11,318	53,133	4.7	12.8	7,345	18.8
30,001-50,000 lbs.....	3,949	13,667	114,457	8.4	29.0	10,957	9.6
50,001 lbs. and over.....	3,109	25,849	355,643	13.8	114.4	23,432	6.6
Total.....	12,547	61,357	541,869	8.8	43.2	47,742	8.8
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under.....	921	46,204	22,360	0.5	24.3		
10,001-20,000 lbs.....	1,981	10,709	35,477	3.3	17.9		
20,001-30,000 lbs.....	3,911	11,191	66,863	6.0	17.1		
30,001 lbs. and over.....	5,788	20,706	263,289	12.7	45.5		
Total.....	12,601	88,810	387,989	4.4	30.8		

SECTION II. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS WITHIN THE PROVINCE  
JANUARY 1-DECEMBER 31, 1958

TABLE 1. All Trucks by Type of Operation

	For Hire	Private			Total
		Intercity	Urban	Farm	
<b>Mileage:</b>					
Total mileage travelled .....	'000	70,031	260,479	244,092	57,256
Average yearly mileage per truck.....		13,200	7,700	6,300	4,900
Average distance each ton was carried .....		28.6	20.1	8.7	18.1
Percentage of total mileage travelled empty.....		32.4	70.3	65.1	74.3
<b>Fuel:</b>					
Total gallons of gasoline consumed.....	'000	9,944	22,472	19,892	4,344
Miles per gallon of gasoline .....		6.3	11.5	12.3	13.2
Total gallons of diesel oil consumed.....	'000	1,271	497	—	—
Miles per gallon of diesel oil .....		5.4	4.8	—	—
Total gallons of other fuel consumed.....	'000	—	119	—	—
Miles per gallon of other fuel .....		—	6.3	—	—
<b>Weight of goods carried:</b>					
Total tons of goods carried .....	'000	12,398	12,529	11,890	1,050
Average weight carried <sup>1</sup> .....	ton	7.5	3.3	1.2	1.3
<b>Net ton miles:</b>					
Total net tons miles performed .....	'000	354,981	251,901	103,141	19,005
Average net ton miles per truck .....		67,000	7,500	2,600	1,600
<b>Capacity ton miles:</b>					
Total capacity ton miles <sup>2</sup> .....	'000	821,208	747,993	434,395	79,626
Average capacity ton miles per truck.....		154,900	22,100	11,100	6,800
Percentage of capacity utilized .....		43.2	33.7	23.7	23.9
<b>Gross ton miles:</b>					
Total gross ton miles <sup>3</sup> .....	'000	853,741	913,297	666,107	124,923
Average gross ton miles per truck .....		161,100	27,000	17,100	10,600
<b>Revenue:</b>					
Total revenue.....	\$'000	36,245	—	—	—
Revenue per ton mile .....	¢	10.2	—	—	—
Revenue per mile (total mileage travelled) .....	¢	51.8	—	—	—
Average revenue per truck .....	\$	6,800	—	—	—
Average annual population.....		5,301	33,792	39,043	11,740
					89,876

TABLE 2. All Trucks by Gross Vehicle Weight Groups

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total	
<b>Mileage:</b>								
Total mileage travelled .....	'000	248,135	226,153	27,966	20,047	46,530	63,027	631,858
Average yearly mileage per truck .....		6,200	7,000	5,400	6,200	9,600	14,700	7,000
Average distance each ton was carried .....		16.0	16.6	13.6	12.7	12.6	26.6	19.3
Percentage of total mileage travelled empty .....		80.2	66.7	37.9	35.9	38.0	35.0	64.5
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000	15,912	18,268	2,955	2,504	7,107	9,906	56,652
Miles per gallon of gasoline .....		15.6	12.4	9.5	7.9	6.5	5.4	11.0
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	1,768	1,768
Miles per gallon of diesel oil .....		—	—	—	—	—	5.3	5.3
Total gallons of other fuel consumed .....	'000	—	—	—	21	12	86	119
Miles per gallon of other fuel .....		—	—	—	8.2	5.8	6.0	6.3
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000	745	2,584	3,137	3,145	11,467	16,789	37,867
Average weight carried <sup>1</sup> .....	ton	0.2	0.6	2.5	3.1	5.0	10.9	3.2
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000	11,921	42,851	42,630	39,995	145,044	446,587	729,028
Average net ton miles per truck .....		300	1,300	8,300	12,400	30,000	104,500	8,100
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000	185,195	272,236	109,911	109,984	369,141	1,036,755	2,083,222
Average capacity ton miles per truck .....		4,600	8,500	21,300	34,100	76,400	242,600	23,200
Percentage of capacity utilized .....		6.4	15.7	38.8	36.4	39.3	43.1	35.0
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000	387,165	532,822	134,736	118,497	369,773	1,015,075	2,558,068
Average gross ton miles per truck .....		9,600	16,600	26,100	36,700	76,500	237,500	28,500
Average annual population .....		40,216	32,163	5,163	3,226	4,834	4,274	89,876

<sup>1</sup> Ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

### SECTION III. INTRAPROVINCIAL TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS JANUARY 1-DECEMBER 31, 1958

TABLE 1. Selected Statistics of Intercity Traffic by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
20,000 lbs. and under .....	'000 tons	'000	'000	tons	miles	\$'000	¢
525	4,001	10,403	2.6	19.8	2,072	19.9	
20,001-30,000 lbs. .....	2,216	7,092	35,517	5.0	16.0	4,580	12.9
30,001-50,000 lbs. .....	2,165	8,089	73,761	9.1	34.1	6,275	8.5
50,001 lbs. and over .....	1,850	12,961	159,258	12.3	86.1	12,414	7.8
<b>Total .....</b>	<b>6,756</b>	<b>32,143</b>	<b>278,939</b>	<b>8.7</b>	<b>41.3</b>	<b>25,341</b>	<b>9.1</b>
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under .....	769	37,700	18,723	0.5	24.4		
10,001-20,000 lbs. .....	1,723	8,692	29,974	3.4	17.4		
20,001-30,000 lbs. .....	3,391	9,885	57,643	5.8	17.0		
30,001 lbs. and over .....	4,456	9,511	109,174	11.5	24.5		
<b>Total .....</b>	<b>10,339</b>	<b>65,788</b>	<b>215,514</b>	<b>3.3</b>	<b>20.8</b>		

TABLE 2. Selected Statistics of Intercity Traffic by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	104	472	6,524	13.8	62.4	509	7.8
Animals and animal products .....	340	2,990	16,562	5.5	48.7	1,603	9.7
Mine products .....	2,167	1,948	22,163	11.4	10.2	1,667	7.5
Forest products .....	1,388	3,810	53,610	14.1	38.6	4,188	7.8
Manufactures and miscellaneous .....	1,613	10,784	94,623	8.8	58.7	7,959	8.4
N.O.S. general freight .....	1,144	12,139	85,457	7.0	74.7	9,415	11.0
<b>Total</b> .....	<b>6,756</b>	<b>32,143</b>	<b>278,939</b>	<b>8.7</b>	<b>41.3</b>	<b>25,341</b>	<b>9.1</b>
<b>Private intercity</b>							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	442	2,123	9,051	4.3	20.5		
Animals and animal products .....	206	4,101	10,434	2.5	50.5		
Mine products .....	3,598	3,467	23,963	6.9	6.7		
Forest products .....	3,591	8,757	84,576	9.7	23.6		
Manufactures and miscellaneous .....	2,051	39,574	77,110	1.9	37.6		
N.O.S. general freight .....	451	7,766	10,380	1.3	23.0		
<b>Total</b> .....	<b>10,339</b>	<b>65,788</b>	<b>215,514</b>	<b>3.3</b>	<b>20.8</b>		

**SECTION IV. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS**  
**JANUARY 1-DECEMBER 31, 1958**

TABLE 1. Tons of Goods Carried by Province of Origin and Destination

Origin or destination	For hire			Private intercity			Total		
	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total
'000 tons									
Newfoundland .....	—	—	—						
Prince Edward Island .....	—	—	—						
Nova Scotia .....	—	—	—						
New Brunswick .....	—	—	—						
Quebec .....	—	—	—						
Ontario .....	—	5	5						
Manitoba .....	5	6	11	1	1	1	1	1	1
Saskatchewan .....	—	—	—						
Alberta .....	94	69	163						
Yukon and Northwest Territories .....	—	5	5						
United States .....	77	101	178						
<b>Total</b> .....	<b>176</b>	<b>186</b>	<b>362</b>						

<sup>1</sup> Reliable estimates not available.

TABLE 2. Selected Statistics by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	13	418	6,719	16.1	529.2	283	4.2
Animals and animal products .....	14	852	12,010	14.1	840.9	551	4.6
Mine products .....	—	—	—	—	—	—	—
Forest products .....	34	327	5,512	16.9	160.8	250	4.5
Manufactures and miscellaneous .....	163	7,035	88,388	12.6	540.9	5,603	6.3
N.O.S. general freight .....	138	6,244	81,371	13.0	591.1	4,841	5.9
<b>Total</b> .....	<b>362</b>	<b>14,876</b>	<b>194,000</b>	<b>13.0</b>	<b>535.4</b>	<b>11,528</b>	<b>5.9</b>
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....							
Animals and animal products .....							
Mine products .....							
Forest products .....	1	1	1	1	1		
Manufactures and miscellaneous .....							
N.O.S. general freight .....							
<b>Total</b> .....							

<sup>1</sup> Reliable estimates not available.

#### SECTION V. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED BUSES INSIDE AND OUTSIDE THE PROVINCE JANUARY 1 - DECEMBER 31, 1958

TABLE 1. By Passenger Seating Capacity

	0-19	20-29	30-39	40 and over	Total
<b>Mileage:</b>					
Total mileage travelled .....	'000	528	209	6,465	5,933
Average yearly mileage per bus .....	26,400	4,300	41,400	54,900	39,400
Average journey (average distance per passenger)	29.5	23.9	48.6	32.2	39.2
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	'000	52	31	694	475
Miles per gallon of gasoline .....		10.1	6.7	7.0	5.3
Total gallons of diesel oil consumed .....	'000	—	—	190	386
Miles per gallon of diesel oil .....		—	—	8.5	8.9
Total gallons of other fuel consumed .....	'000	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—
<b>Passengers and passenger miles:</b>					
Total number of passengers carried .....	'000	33	119	2,400	2,879
Total number of passenger miles .....	'000	961	2,839	116,605	92,636
Average number of passengers carried per mile .....		1.8	13.6	18.0	15.6
<b>Capacity:</b>					
Total capacity seat miles .....	'000	5,529	5,937	234,445	262,130
Percentage of capacity utilized .....		17.4	47.8	49.7	35.3
<b>Revenue:</b>					
Total passenger revenue .....	\$'000	66	110	3,176	3,133
Revenue per mile (total mileage travelled) .....	¢	12.5	52.5	49.1	52.8
Revenue per passenger mile .....	¢	6.8	3.9	2.7	3.4
Revenue per bus .....	\$	3,300	2,200	20,400	29,000
					19,500

**SECTION VI. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED BUSES WITHIN THE PROVINCE**  
**JANUARY 1 - DECEMBER 31, 1958**

**TABLE 1. By Passenger Seating Capacity**

		0-19	20-29	30-39	40 and over	Total
<b>Mileage:</b>						
Total mileage travelled .....	'000	528	209	5,788	3,965	10,490
Average yearly mileage per bus .....	26,400	29.5	4,300	37,100	36,700	31,500
Average journey (average distance per passenger) .....			23.9	46.8	23.0	33.7
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	52	31	648	433	1,164
Miles per gallon of gasoline .....	'000	10.1	6.7	6.9	5.1	6.4
Total gallons of diesel oil consumed .....	'000	—	—	163	198	361
Miles per gallon of diesel oil .....	'000	—	—	8.2	8.8	8.5
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....	'000	—	—	—	—	—
<b>Passengers and passenger miles:</b>						
Total number of passengers carried .....	'000	33	119	2,278	2,644	5,074
Total number of passenger miles .....	'000	961	2,839	106,604	60,736	171,140
Average number of passengers carried per mile .....		1.8	13.6	18.4	15.3	16.3
<b>Capacity:</b>						
Total capacity seat miles .....	'000	5,529	5,937	207,896	177,976	397,338
Percentage of capacity utilized .....		17.4	47.8	51.3	34.1	43.1
<b>Revenue:</b>						
Total passenger revenue .....	\$'000	66	110	2,897	2,283	5,356
Revenue per mile (total mileage travelled) .....	¢	12.5	52.5	50.1	57.6	51.1
Revenue per passenger mile .....	¢	6.8	3.9	2.7	3.8	3.1
Revenue per bus .....	\$	3,300	2,200	18,600	21,100	16,100

**Appendix 1**

Type of operation	A. Population						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Estimated average British Columbia truck population January 1-December 31, 1958							
For hire .....	74	618	404	701	1,639	1,865	5,301
Private:							
Intercity .....	16,058	12,067	1,578	874	1,577	1,638	33,792
Urban .....	17,720	15,038	2,486	1,516	1,523	760	39,043
Farm .....	6,364	4,440	695	135	95	11	11,740
<b>Total</b> .....	<b>40,216</b>	<b>32,163</b>	<b>5,163</b>	<b>3,226</b>	<b>4,834</b>	<b>4,274</b>	<b>89,876</b>
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable	
For hire .....	1,140	608		298		234	
Private:							
Intercity .....	3,438	1,620		831		987	
Urban .....	3,854	1,834		933		1,087	
Farm .....	976	482		212		282	
<b>Total</b> .....	<b>9,408</b>	<b>4,544</b>		<b>2,274</b>		<b>2,590</b>	

## APPENDIX 2. Reliability of Motor Transport Traffic Statistics

	Number of trucks reporting (1)	Survey estimates (2)	Sampling variability (Two standard deviations)		Range (Col. 2 plus and minus col. 3)			
			Size (3)	Per cent of col. 2 (4)	Lower limit (5)	Upper limit (6)		
			'000	'000	'000	'000		
<b>A. Traffic performed within the province<sup>1</sup></b>								
Total mileage travelled								
		miles	miles		miles	miles		
For hire .....	602	70,031	4,902	7.0	65,129	74,933		
Private:								
Intercity .....	1,613	260,479	12,503	4.8	247,976	272,982		
Urban .....	1,834	244,092	8,299	3.4	235,793	252,391		
Farm .....	482	57,256	5,039	8.8	52,217	62,295		
Total .....	4,531	631,858	16,428	2.6	615,430	648,286		
Weight of goods carried								
		tons	tons		tons	tons		
For hire .....	600	12,398	1,736	14.0	10,662	14,134		
Private:								
Intercity .....	816	12,529	1,529	12.2	11,000	14,058		
Urban .....	1,026	11,890	1,332	11.2	10,558	13,222		
Farm .....	309	1,050	347	33.0	703	1,397		
Total .....	2,751	37,867	2,651	7.0	35,216	40,518		
Net ton miles								
		net ton miles	net ton miles		net ton miles	net ton miles		
For hire .....	600	354,981	37,628	10.6	317,353	392,609		
Private:								
Intercity .....	816	251,901	26,702	10.6	225,199	278,603		
Urban .....	1,026	103,141	8,045	7.8	95,096	111,186		
Farm .....	309	19,005	5,283	27.8	13,722	24,288		
Total .....	2,751	729,028	45,200	6.2	683,828	774,228		
Revenue earned								
		\$	\$		\$	\$		
For hire .....	600	36,245	3,190	8.8	33,055	39,435		
<b>B. Interprovincial and international traffic</b>								
Weight of goods carried								
		tons	tons		tons	tons		
For hire .....	37	362	84	23.2	278	446		
Net ton miles								
		net ton miles	net ton miles		net ton miles	net ton miles		
For hire .....	37	194,000	43,456	22.4	150,544	237,456		

<sup>1</sup> Estimates for traffic "inside and outside the province" are considered to be more reliable while the estimates for "intraprovincial" traffic should be equally reliable.

Note: The chances are 95 out 100 that the range (sample estimate  $\pm$  sampling variability) contains the true value. Consider "total mileage travelled" by for-hire trucks. It can be assumed that the computed figure 70,031,000 miles, will not be more than 4,902,000 miles (plus or minus 7.0 per cent of 70,031,000) away from the "true" value in 95 out of 100 cases. In other words, the chances are 95 out of 100 that the true value will fall within a range of 65,129,000 to 74,933,000.







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# **MOTOR TRANSPORT TRAFFIC**

## **PROVINCE OF BRITISH COLUMBIA**

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PROVINCE OF BRITISH COLUMBIA

JANUARY 1-DECEMBER 31, 1959

CHART — 1 TRUCK REGISTRATIONS BY TYPE OF OPERATION

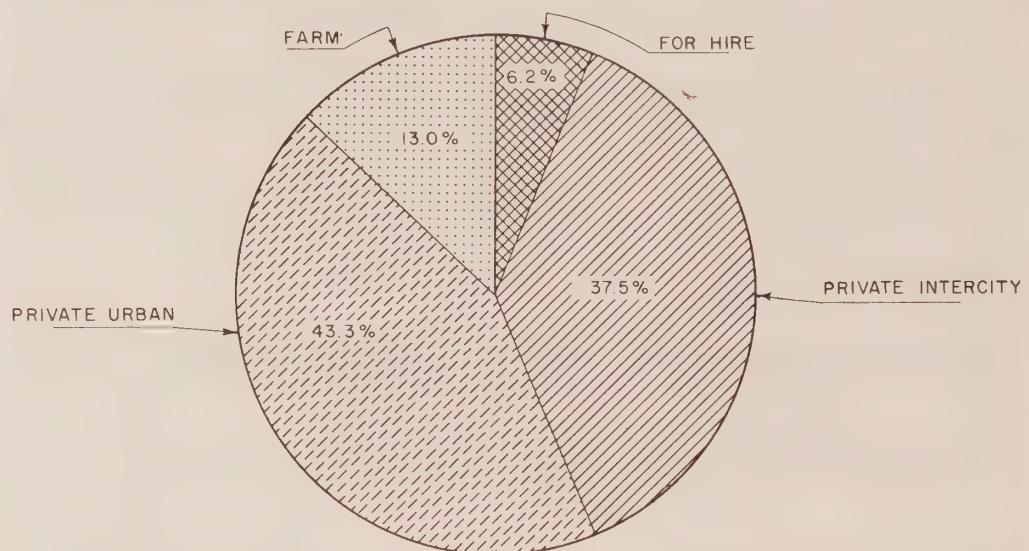
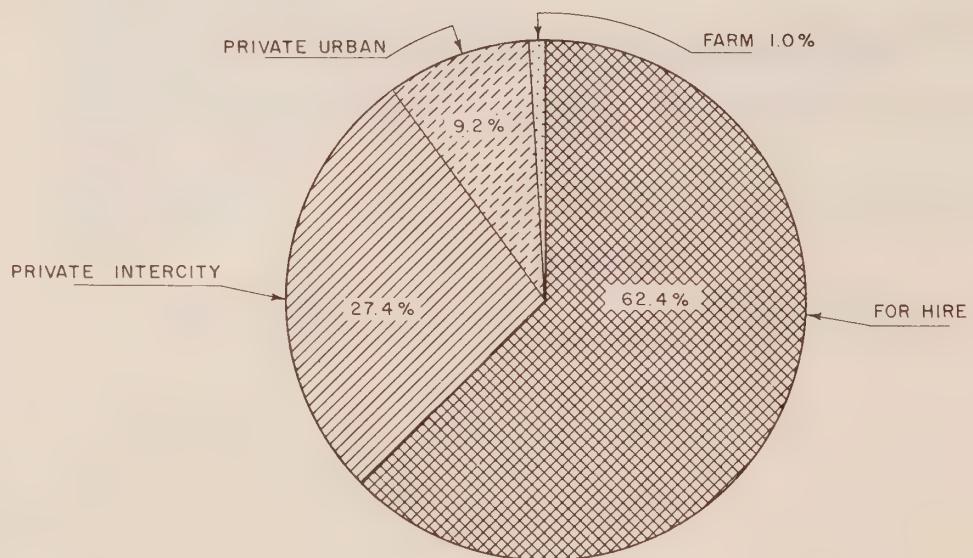


CHART — 2 NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1959 annual report of motor transport traffic in the Province of British Columbia is based upon a sample of approximately 11 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Prior to 1959 a sample survey of intercity buses was conducted in conjunction with the truck traffic survey. However, it was not possible to survey buses in all provinces and, as some traffic data are also collected for the annual publication "Passenger Bus Statistics", catalogue no. 53-215, it was decided to discontinue the sample survey of buses for the present.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles

are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

Since for hire trucks ("E", "G", "H" and "J" carriers) are the only class to be registered separately in British Columbia, it is necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" and "farm".

In this report vehicles have been classified into the four functional categories as follows:

For hire	- "E", "G", "H" and "J" carrier licensed vehicles operated in intercity service and/or urban areas.
Private intercity	- private non-farm vehicles operating beyond urban areas.
Private urban	- private vehicles operating only within urban areas.
Farm	- private vehicles owned and operated by farmers.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957 and 1958.

### Expansion of Survey Results

Prior to 1959 the distribution of sample vehicles by gross vehicle weight group and by type of operation was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

To improve the accuracy of the provincial estimates, it was decided to use, for 1959, the peak

registration population in calculating the blow-up factor rather than the population as at four different periods during the year.

Unfortunately time has not permitted calculations of the reliability of these estimates similar to those published in the 1958 report. It should also be noted that the section dealing exclusively with trips originating and terminating within the province has been omitted from this report for the purposes of simplification.

### Review of Survey Results

The estimated population of trucks performing transportation services in British Columbia during the year rose 7.7 per cent to 96,772 from 89,876 in 1958. Of these 5,968 or 6.2 per cent were for hire trucks; 36,281 or 37.5 per cent were private intercity vehicles; 41,918 or 43.3 per cent were private vehicles operating wholly within urban areas; and 12,605 or 13.0 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

#### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by British Columbia registered trucks.

Although comprising only 6.2 per cent of British Columbia's truck population, for hire vehicles accounted for 62.4 per cent of the total net ton miles and 35.7 per cent of the total tons of goods carried during 1959. This results from the high average yearly mileage of these trucks, 18,600 miles as compared with 7,600 miles for all trucks, and from the heavy average load carried of 9.3 tons compared to 4.6 tons for all trucks. Since approximately two thirds of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance

of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline, 6.2 compared with 11.1 for all trucks.

It is estimated that less than 8 per cent of the total net ton miles performed by British Columbia registered for hire trucks was in urban operations.

Some trucks in British Columbia under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 33 per cent of the total mileage travelled by British Columbia registered trucks.

#### Section II: Traffic Within the Province

This section presents estimates of traffic performed by British Columbia registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 33.9 per cent and private intercity 27.0 per cent of their total net ton miles outside British Columbia.

#### Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately one third of the total net ton miles performed and one fifth of the revenue earned by these vehicles. Over one half of the total tons of goods carried in this type of traffic by British Columbia registered for hire trucks was transported to or from Alberta and over one third was carried to or from the United States.

### Appendix

During the year survey questionnaires were sent to the owners or operators of 10,284 trucks. Of this number 4,295 were returned completed and 2,623 trucks were reported not used during the

survey week. The remaining 3,366 were either returned incomplete and unusable or not returned at all.

May 31, 1961

**SECTION I. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE**  
**JANUARY 1-DECEMBER 31, 1959**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
<b>Mileage:</b>						
Total mileage travelled .....	'000	110,822	346,820	227,022	51,271	735,935
Average yearly mileage per truck .....		18,600	9,600	5,400	4,100	7,600
Average distance each ton was carried .....		48.2	23.6	8.2	16.3	27.5
Percentage of total mileage travelled empty .....		27.4	76.5	64.2	70.8	64.9
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	11,904	27,421	18,797	3,732	61,854
Miles per gallon of gasoline .....		6.2	12.3	12.1	13.7	11.1
Total gallons of diesel oil consumed .....	'000	6,730	1,562	—	—	8,292
Miles per gallon of diesel oil .....		5.6	6.0	—	—	5.6
Total gallons of other fuel consumed .....	'000	—	74	—	—	74
Miles per gallon of other fuel .....		—	6.6	—	—	6.6
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	15,543	13,963	13,348	736	43,590
Average weight carried <sup>1</sup> .....	ton	9.3	4.0	1.4	0.8	4.6
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	748,479	328,832	109,877	11,980	1,199,168
Average net ton miles per truck .....		125,400	9,100	2,600	1,000	12,400
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	1,483,753	972,287	411,307	62,870	2,930,217
Average capacity ton miles per truck .....		248,600	26,800	9,800	5,000	30,300
Percentage of capacity utilized .....		50.4	33.8	26.7	19.1	40.9
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	1,617,835	1,236,715	599,096	104,332	3,557,978
Average gross ton miles per truck .....		271,100	34,100	14,300	8,300	36,800
<b>Revenue:</b>						
Total revenue .....	\$'000	67,267	—	—	—	—
Revenue per ton mile .....	¢	9.0	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	60.7	—	—	—	—
Average revenue per truck .....	\$	11,300	—	—	—	—
Estimated annual population .....		5,968	36,281	41,918	12,605	96,772

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total	
<b>Mileage:</b>								
Total mileage travelled .....	'000	272,515	250,136	30,579	23,077	49,562	110,066	735,935
Average yearly mileage per truck .....		6,300	7,200	5,500	6,600	9,400	23,500	7,600
Average distance each ton was carried .....		21.1	15.8	15.7	13.3	11.3	42.6	27.5
Percentage of total mileage travelled empty .....		83.9	72.0	33.8	34.2	36.9	29.5	64.9
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000	17,409	18,977	3,298	2,933	7,511	11,726	61,854
Miles per gallon of gasoline .....		15.7	13.2	9.3	7.9	6.6	5.4	11.1
Total gallons of diesel oil consumed .....	'000	—	—	—	—	749	7,543	8,292
Miles per gallon of diesel oil .....		—	—	—	—	5.7	5.6	5.6
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	74	74
Miles per gallon of other fuel .....		—	—	—	—	—	6.6	6.6
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000	667	2,065	2,503	3,396	13,466	21,493	43,590
Average weight carried <sup>1</sup> .....	ton	0.3	0.5	1.9	3.0	4.9	11.8	4.6
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000	14,072	32,694	39,187	45,183	152,772	915,260	1,199,168
Average net ton miles per truck .....		300	900	7,000	12,900	29,000	195,300	12,400
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000	221,687	285,974	109,724	126,091	378,161	1,808,580	2,930,217
Average capacity ton miles per truck .....		5,100	8,300	19,700	36,000	71,700	385,900	30,300
Percentage of capacity utilized .....		6.3	11.4	35.7	35.8	40.4	50.6	40.9
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000	428,125	507,134	138,914	133,051	391,210	1,959,544	3,557,978
Average gross ton miles per truck .....		9,900	14,700	25,000	38,000	74,200	418,100	36,800
Estimated annual population .....		43,182	34,564	5,564	3,500	5,275	4,687	96,772

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under .....	1,510	11,238	19,582	1.7	13.0	10,111	51.6
20,001-30,000 lb. .....	5,010	14,400	70,433	4.9	14.1	12,379	17.6
30,001-50,000 lb. .....	5,268	19,792	160,567	8.1	30.5	14,412	9.0
50,001 lb. and over .....	3,755	34,993	497,897	14.2	132.6	30,365	6.1
<b>Totals .....</b>	<b>15,543</b>	<b>80,423</b>	<b>748,479</b>	<b>9.3</b>	<b>48.2</b>	<b>67,267</b>	<b>9.0</b>
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	646	38,610	13,385	0.3		20.7	
10,001-20,000 lb. .....	1,703	13,625	34,155	2.5		20.1	
20,001-30,000 lb. .....	4,399	10,187	54,791	5.4		12.5	
30,001 lb. and over .....	7,215	19,247	226,501	11.8		31.4	
<b>Totals .....</b>	<b>13,963</b>	<b>81,669</b>	<b>328,832</b>	<b>4.0</b>		<b>23.6</b>	

SECTION II. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS WITHIN THE PROVINCE  
JANUARY 1-DECEMBER 31, 1959

TABLE 4. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
<b>Mileage:</b>					
Total mileage travelled .....	'000	87,395	329,734	227,022	51,271
Average yearly mileage per truck .....		14,600	9,100	5,400	4,100
Average distance each ton was carried .....		32.3	17.3	8.2	16.3
Percentage of total mileage travelled empty .....		30.5	77.8	64.2	70.8
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	'000	10,593	26,158	18,797	3,732
Miles per gallon of gasoline .....		6.3	12.4	12.1	13.7
Total gallons of diesel oil consumed .....	'000	4,056	783	—	—
Miles per gallon of diesel oil .....		5.1	6.2	—	—
Total gallons of other fuel consumed .....	'000	—	41	—	—
Miles per gallon of other fuel .....		—	6.0	—	—
<b>Weight of goods carried:</b>					
Total tons of goods carried .....	'000	15,333	13,880	13,348	736
Average weight carried <sup>1</sup> .....	ton	8.1	3.3	1.4	0.8
<b>Net ton miles:</b>					
Total net tons miles performed .....	'000	494,926	240,149	109,877	11,980
Average net ton miles per truck .....		82,900	6,600	2,600	1,000
<b>Capacity ton miles:</b>					
Total capacity ton miles <sup>2</sup> .....	'000	1,069,820	817,307	411,307	62,870
Average capacity ton miles per truck .....		179,300	22,500	9,800	5,000
Percentage of capacity utilized .....		46.3	29.4	26.7	19.1
<b>Gross ton miles:</b>					
Total gross ton miles <sup>3</sup> .....	'000	1,138,430	1,050,934	599,096	104,332
Average gross ton miles per truck .....		190,800	29,000	14,300	8,300
<b>Revenue:</b>					
Total revenue .....	\$'000	54,359	—	—	—
Revenue per ton mile .....	¢	11.0	—	—	—
Revenue per mile (total mileage travelled) .....	¢	62.2	—	—	—
Average revenue per truck .....	\$	9,100	—	—	—
Estimated annual population .....		5,968	36,281	41,918	12,605
					96,772

See footnotes at end of Table 5, page 9.

TABLE 5. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	268,309	246,976	30,382	23,066	48,463	78,226
Average yearly mileage per truck .....		6,200	7,100	5,500	6,600	9,200	16,700
Average distance each ton was carried .....		21.1	15.6	15.7	13.3	11.1	27.2
Percentage of total mileage travelled empty .....		83.7	72.2	33.3	34.3	37.0	33.8
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	17,214	18,749	3,281	2,931	7,324	9,781
Miles per gallon of gasoline .....		15.6	13.2	9.3	7.9	6.6	5.3
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	4,839
Miles per gallon of diesel oil .....		—	—	—	—	—	5.3
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	41
Miles per gallon of other fuel .....		—	—	—	—	—	6.0
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	667	2,065	2,503	3,396	13,451	21,215
Average weight carried <sup>1</sup> .....	ton	0.3	0.5	1.9	3.0	4.9	11.1
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	14,072	32,307	39,187	45,149	149,557	576,660
Average net ton miles per truck .....		300	900	7,000	12,900	28,400	123,000
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	217,872	283,424	109,121	126,024	370,237	1,254,623
Average capacity ton miles per truck .....		5,000	8,200	19,600	36,000	70,200	267,700
Percentage of capacity utilized .....		6.5	11.4	35.9	35.8	40.4	46.0
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	421,401	501,913	138,229	132,978	382,498	1,315,773
Average gross ton miles per truck .....		9,800	14,500	24,800	38,000	72,500	280,700
Estimated annual population .....		43,182	34,564	5,564	3,500	5,275	4,687

<sup>1</sup> Ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

### SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS JANUARY 1 - DECEMBER 31, 1959

TABLE 6. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity <sup>1</sup>			Total <sup>1</sup>		
	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total
'000 tons									
Newfoundland .....	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—	—	—	—
Quebec .....	—	—	—	—	—	—	—	—	—
Ontario .....	19	12	31	—	—	—	—	—	—
Manitoba .....	—	—	—	—	—	—	—	—	—
Saskatchewan .....	—	—	—	—	—	—	—	—	—
Alberta .....	131	74	205	—	—	—	—	—	—
Yukon and Northwest Territories .....	—	3	3	—	—	—	—	—	—
United States .....	91	60	151	—	—	—	—	—	—
<b>Totals .....</b>	<b>241</b>	<b>149</b>	<b>390</b>	—	—	—	—	—	—

<sup>1</sup> Reliable estimates not available.

TABLE 7. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	16	432	8,070	18.7	514.1	238	2.9
Animals and animal products .....	37	1,947	29,940	15.4	807.2	953	3.2
Mine products .....	—	—	—	—	—	—	—
Forest products .....	—	—	—	—	—	—	—
Manufactures and miscellaneous .....	181	9,166	106,904	11.7	589.3	5,896	5.5
N.O.S. general freight .....	156	8,327	116,119	13.9	743.8	5,733	4.9
<b>Totals .....</b>	<b>390</b>	<b>19,872</b>	<b>261,033</b>	<b>13.1</b>	<b>668.8</b>	<b>12,820</b>	<b>4.9</b>
<b>Private intercity<sup>1</sup></b>							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....							
Animals and animal products .....							
Mine products .....							
Forest products .....							
Manufactures and miscellaneous .....							
N.O.S. general freight .....							
<b>Totals .....</b>							

<sup>1</sup> Reliable estimates not available.

## Appendix

Type of operation	A. Population						
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated British Columbia truck population in 1959							
For hire .....	83	696	455	789	1,845	2,100	5,968
Private:							
Intercity .....	17,241	12,956	1,694	938	1,693	1,759	36,281
Urban .....	19,025	16,145	2,669	1,628	1,635	816	41,918
Farm .....	6,833	4,767	746	145	102	12	12,605
<b>Totals .....</b>	<b>43,182</b>	<b>34,564</b>	<b>5,564</b>	<b>3,500</b>	<b>5,275</b>	<b>4,687</b>	<b>96,772</b>
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed	Number of sampled trucks reported not in use during survey week	Number of questionnaires not returned or returned incomplete and unusable			
For hire .....	1,453	750	350				353
Private:							
Intercity .....	3,049	1,218	814				1,017
Urban .....	4,951	1,982	1,262				1,707
Farm .....	831	345	197				289
<b>Totals .....</b>	<b>10,284</b>	<b>4,295</b>	<b>2,623</b>				<b>3,366</b>





CATALOGUE No.

**53-214**

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Canada. Statistics, Bureau of

MOTOR TRANSPORT TRAFFIC  
PROVINCE OF BRITISH COLUMBIA

1960

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PROVINCE OF BRITISH COLUMBIA  
JANUARY 1—DECEMBER 31, 1960

CHART — 1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

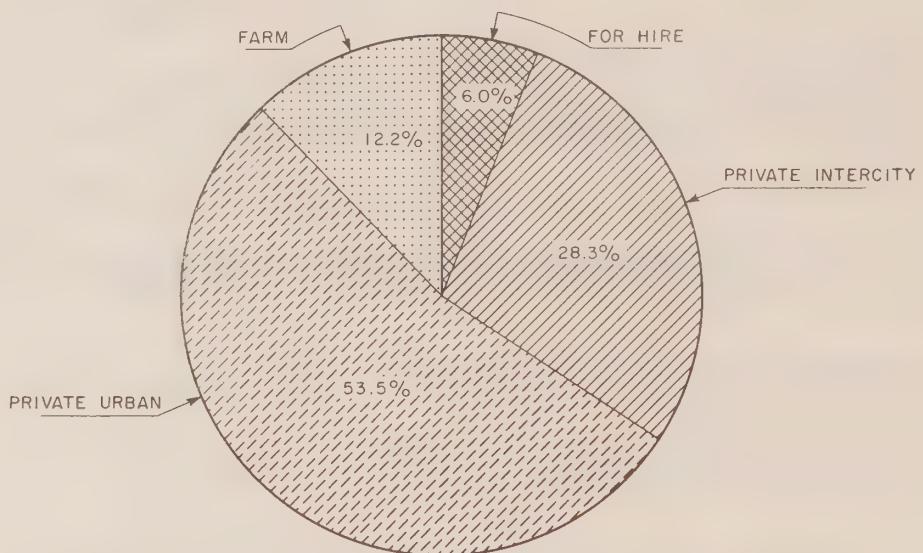
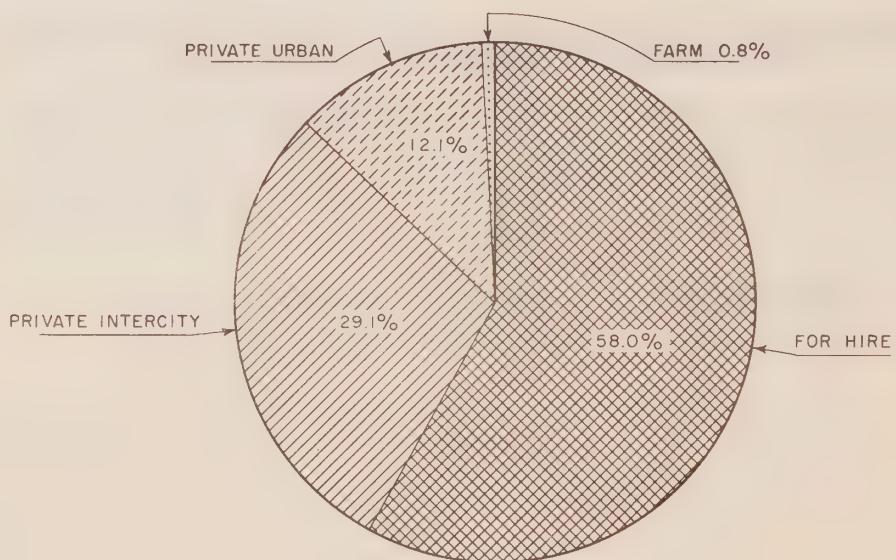


CHART — 2

NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1960 annual report of motor transport traffic in the Province of British Columbia is based upon a sample of approximately 11 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Prior to 1959 a sample survey of intercity buses was conducted in conjunction with the truck traffic survey. However, it was not possible to survey buses in all provinces and, as some traffic data are also collected for the annual publication "Passenger Bus Statistics", catalogue no. 53-215, it was decided to discontinue the sample survey of buses for the present.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles

are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

Since for hire trucks ("E", "G", "H" and "J" carriers) are the only class to be registered separately in British Columbia, it is necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" and "farm".

In this report vehicles have been classified into the four functional categories as follows:

For hire	- "E", "G", "H" and "J" carrier licensed vehicles operated in intercity service and/or urban areas.
Private intercity	- private non-farm vehicles operating beyond urban areas.
Private urban	- private vehicles operating only within urban areas.
Farm	- private vehicles owned and operated by farmers.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957, 1958 and 1959.

### Expansion of Survey Results

Prior to 1959 the distribution of sample vehicles by gross vehicle weight group and by type of operation was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

Using this method it was found that in some provinces the truck population varied greatly from quarter to quarter. In many cases these changes were not due to an increase or decrease in the

actual truck population but were merely the result of the sample being chosen from an incomplete set of registration files.

To improve the accuracy of the provincial estimates the sample results, since 1959, have been blown up to represent the characteristics of a constant average population throughout the year rather than the population as at four different periods during the year. For this purpose the peak quarterly registration population of the preceding year is deemed to be the average population for the current year. The breakdown of the average population into classes and gross vehicle weight groups is based upon the distribution reported in the whole of the previous year.

### Review of Survey Results

The estimated population of trucks performing transportation services in British Columbia during the year rose 3.3 per cent to 100,000 from 96,772 in 1959. Of these 6,000 or 6.0 per cent were for hire trucks; 28,270 or 28.3 per cent were private inter-city vehicles; 53,555 or 53.5 per cent were private vehicles operating wholly within urban areas; and 12,175 or 12.2 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

#### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by British Columbia registered trucks.

A new table has been added to this section which summarizes for the year the quarterly commodity tables included in the quarterly report "Motor Transport Traffic, National Estimates", catalogue no. 53-004.

Although comprising only 6.0 per cent of British Columbia's truck population for hire vehicles accounted for 58.0 per cent of the total net ton miles and 33.6 per cent of the total tons of goods carried during 1960. This results from the high average yearly mileage of these trucks, 18,600 miles as compared with 6,200 miles for all trucks, and from the heavy average load carried of 10.0 tons compared to 5.0 tons for all trucks. Since approximately two thirds of all for hire vehicles have a gross vehicle weight

of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline 6.3 compared with 10.3 for all trucks.

It is estimated that urban operations accounted for 9 per cent of the total ton miles performed by British Columbia registered for hire trucks and 3 per cent of the total ton miles performed by private inter-city vehicles.

Some trucks in British Columbia under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 23 per cent of the total mileage travelled by British Columbia registered trucks.

#### Section II: Traffic Within the Province

This section presents estimates of traffic performed by British Columbia registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 41.4 per cent and private intercity 30.3 per cent of their total net ton miles outside British Columbia.

#### Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately one third of the total net ton miles performed and one fifth of the revenue earned by these vehicles. Over nine tenths of the total tons of goods carried in this type of traffic by British Columbia registered for hire trucks was transported to or from Alberta and the United States.

#### Appendix

During the year survey questionnaires were sent to the owners or operators of 10,213 trucks. Of this number 4,050 were returned completed and 3,015

trucks were reported not used during the survey week. The remaining 3,148 were either returned incomplete and unusable or not returned at all.

February 5, 1962.

**SECTION I. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE**  
**JANUARY 1-DECEMBER 31, 1960**

**TABLE 1. All Trucks by Type of Operation**

	For hire	Private			Total
		Intercity	Urban	Farm	
<b>Mileage:</b>					
Total mileage travelled .....	'000	111,500	225,171	238,769	43,120
Average yearly mileage per truck .....		18,600	8,000	4,500	3,500
Average distance each ton was carried .....		49.7	34.3	8.6	14.5
Percentage of total mileage travelled empty .....		29.0	65.0	58.5	70.8
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	'000	11,562	18,755	21,274	3,236
Miles per gallon of gasoline .....		6.3	11.1	11.2	13.3
Total gallons of diesel oil consumed .....	'000	6,812	2,500	—	—
Miles per gallon of diesel oil .....		5.7	6.1	—	—
Total gallons of other fuel consumed .....	'000	—	217	—	—
Miles per gallon of other fuel .....		—	6.3	—	—
<b>Weight of goods carried:</b>					
Total tons of goods carried .....	'000	15,868	11,518	19,105	777
Average weight carried <sup>1</sup> .....	ton	10.0	5.0	1.7	0.9
<b>Net ton miles:</b>					
Total net ton miles performed .....	'000	787,941	394,557	163,980	11,251
Average net ton miles per truck .....		131,300	14,000	3,100	900
<b>Capacity ton miles:</b>					
Total capacity ton miles <sup>2</sup> .....	'000	1,406,256	953,684	525,339	54,339
Average capacity ton miles per truck .....		234,400	33,700	9,800	4,500
Percentage of capacity utilized .....		56.0	41.4	31.2	20.7
<b>Gross ton miles:</b>					
Total gross ton miles <sup>3</sup> .....	'000	1,754,944	1,169,356	741,753	91,259
Average gross ton miles per truck .....		292,500	41,400	13,900	7,500
<b>Revenue:</b>					
Total revenue .....	\$'000	63,985	—	—	—
Revenue per ton mile .....	¢	8.1	—	—	—
Revenue per mile (total mileage travelled) .....	¢	57.4	—	—	—
Average revenue per truck .....	\$	10,700	—	—	—
Estimated annual population .....		6,000	28,270	53,555	12,175
					100,000

**TABLE 2. All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	192,039	212,046	24,875	22,904	55,397	111,299
Average yearly mileage per truck .....		4,400	5,800	5,100	5,600	9,500	20,600
Average distance each ton was carried .....		21.0	24.0	13.6	16.3	12.9	40.4
Percentage of total mileage travelled empty .....		76.5	61.7	35.6	31.2	36.8	31.2
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	12,839	16,979	2,750	2,966	8,152	11,141
Miles per gallon of gasoline .....		15.0	12.5	9.0	7.7	6.6	5.1
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	9,312
Miles per gallon of diesel oil .....		—	—	—	—	—	5.8
Total gallons of other fuel consumed .....	'000	—	—	—	—	188	29
Miles per gallon of other fuel .....		—	—	—	—	6.5	5.5
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	719	2,205	2,050	3,187	13,462	25,645
Average weight carried <sup>1</sup> .....	ton	0.3	0.7	1.7	3.3	4.9	13.5
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	15,125	52,985	27,792	52,018	173,087	1,036,722
Average net ton miles per truck .....		300	1,500	5,700	12,800	29,800	191,500
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	157,907	273,736	81,491	125,114	427,214	1,874,156
Average capacity ton miles per truck .....		3,600	7,500	16,600	30,800	73,600	346,200
Percentage of capacity utilized .....		9.6	19.4	34.1	41.6	40.5	55.3
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	325,419	479,302	110,763	144,850	441,658	2,255,320
Average gross ton miles per truck .....		7,500	13,200	22,600	35,700	76,100	416,600
Estimated annual population .....		43,442	36,375	4,908	4,060	5,802	5,413
							100,000

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles	\$'000	¢	
20,000 lb. and under .....	1,174	14,718	23,743	1.6	20.2	10,304	43.4
20,001-30,000 lb. .....	4,501	14,247	71,064	5.0	15.8	12,455	17.5
30,001-50,000 lb. .....	6,537	16,646	158,770	9.5	24.3	14,893	9.4
50,001 lb. and over .....	3,656	33,578	534,364	15.9	146.2	26,333	4.9
<b>Totals .....</b>	<b>15,868</b>	<b>79,189</b>	<b>787,941</b>	<b>10.0</b>	<b>49.7</b>	<b>63,985</b>	<b>8.1</b>
Private intercity							
Weight of goods carried	Total miles travelled with load			Total net ton miles	Average weight carried	Average distance per ton	
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	696	36,342	20,318	0.6		29.2	
10,001-20,000 lb. .....	959	9,510	23,418	2.5		24.4	
20,001-30,000 lb. .....	2,982	11,492	57,005	5.0		19.1	
30,001 lb. and over .....	6,881	21,449	293,816	13.7		42.7	
<b>Totals .....</b>	<b>11,518</b>	<b>78,793</b>	<b>394,557</b>	<b>5.0</b>	<b>5.0</b>	<b>34.3</b>	

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles	\$'000	¢	
Agricultural products .....	199	3,860	60,552	15.7	303.5	1,940	3.2
Animals and animal products .....	472	5,371	37,725	7.0	80.0	2,841	7.5
Mine products .....	6,476	5,987	70,702	11.8	10.9	5,832	8.2
Forest products .....	2,544	5,112	74,610	14.6	29.3	5,411	7.3
Manufactures and miscellaneous .....	4,231	36,990	336,133	9.1	79.4	29,272	8.7
N.O.S. general freight .....	1,946	21,869	208,219	9.5	107.0	18,689	9.0
<b>Totals .....</b>	<b>15,868</b>	<b>79,189</b>	<b>787,941</b>	<b>10.0</b>	<b>49.7</b>	<b>63,985</b>	<b>8.1</b>
Private intercity							
Weight of goods carried	Total miles travelled with load			Total net ton miles	Average weight carried	Average distance per ton	
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	132	2,824	29,417	10.4		223.6	
Animals and animal products .....	442	9,087	25,363	2.8		57.4	
Mine products .....	3,701	4,419	47,756	10.8		12.9	
Forest products .....	4,048	7,533	88,829	11.8		21.9	
Manufactures and miscellaneous .....	2,967	49,165	171,184	3.5		57.7	
N.O.S. general freight .....	228	5,765	32,008	5.6		140.5	
<b>Totals .....</b>	<b>11,518</b>	<b>78,793</b>	<b>394,557</b>	<b>5.0</b>	<b>5.0</b>	<b>34.3</b>	

**SECTION II. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS WITHIN THE PROVINCE**  
**JANUARY 1-DECEMBER 31, 1960**

**TABLE 5. All Trucks by Type of Operation**

	For hire	Private			Total	
		Intercity	Urban	Farm		
<b>Mileage:</b>						
Total mileage travelled .....	'000	85,567	211,338	238,769	43,120	578,794
Average yearly mileage per truck .....		14,300	7,500	4,500	3,500	5,800
Average distance each ton was carried .....		29.6	25.1	8.6	14.5	19.6
Percentage of total mileage travelled empty .....		33.2	67.2	58.5	70.8	58.8
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	10,366	17,819	21,274	3,236	52,695
Miles per gallon of gasoline .....		6.4	11.3	11.2	13.3	10.4
Total gallons of diesel oil consumed .....	'000	3,362	1,317	—	—	4,679
Miles per gallon of diesel oil .....		5.8	6.3	—	—	5.9
Total gallons of other fuel consumed .....	'000	—	195	—	—	195
Miles per gallon of other fuel .....		—	6.3	—	—	6.3
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	15,588	10,938	19,105	777	46,408
Average weight carried <sup>1</sup> .....	ton	8.1	4.0	1.7	0.9	3.8
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	461,697	274,896	163,980	11,251	911,824
Average net ton miles per truck .....		76,900	9,700	3,100	900	9,100
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	946,223	747,682	525,339	54,339	2,273,583
Average capacity ton miles per truck .....		157,700	26,400	9,800	4,500	22,700
Percentage of capacity utilized .....		48.8	36.8	31.2	20.7	40.1
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	1,102,588	910,510	741,753	91,259	2,846,110
Average gross ton miles per truck .....		183,800	32,200	13,900	7,500	28,500
<b>Revenue:</b>						
Total revenue .....	\$'000	50,571	—	—	—	—
Revenue per ton mile .....	¢	11.0	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	59.1	—	—	—	—
Average revenue per truck .....	\$	8,400	—	—	—	—
Estimated annual population .....		6,000	28,270	53,555	12,175	100,000

**TABLE 6. All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total	
<b>Mileage:</b>								
Total mileage travelled .....	'000	191,347	211,853	24,369	22,251	52,539	76,435	578,794
Average yearly mileage per truck .....		4,400	5,800	5,000	5,500	9,100	14,100	5,800
Average distance each ton was carried .....		21.0	24.0	13.0	16.2	12.3	24.1	19.6
Percentage of total mileage travelled empty .....		76.5	61.7	35.4	32.1	36.4	37.5	58.8
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000	12,800	16,974	2,678	2,903	7,783	9,557	52,695
Miles per gallon of gasoline .....		14.9	12.5	9.1	7.7	6.6	5.1	10.4
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	—	4,679
Miles per gallon of diesel oil .....		—	—	—	—	—	—	5.9
Total gallons of other fuel consumed .....	'000	—	—	—	—	182	13	195
Miles per gallon of other fuel .....		—	—	—	—	6.4	4.8	6.3
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000	719	2,205	2,046	3,177	13,307	24,954	46,408
Average weight carried <sup>1</sup> .....	ton	0.3	0.7	1.7	3.4	4.9	12.6	3.8
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000	15,125	52,985	26,590	51,453	164,334	601,337	911,824
Average net ton miles per truck .....		300	1,500	5,400	12,700	28,300	111,100	9,100
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000	157,408	273,550	79,078	121,397	404,056	1,238,094	2,273,583
Average capacity ton miles per truck .....		3,600	7,500	16,100	29,900	69,600	228,700	22,700
Percentage of capacity utilized .....		9.6	19.4	33.6	42.4	40.7	48.6	40.1
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000	324,349	478,991	107,911	141,490	419,110	1,374,259	2,846,110
Average gross ton miles per truck .....		7,500	13,200	22,000	34,900	72,200	253,900	28,500
Estimated annual population .....		43,442	36,375	4,908	4,060	5,802	5,413	100,000

<sup>1</sup> Net ton miles divided by miles travelled with load.

<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.

<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS  
JANUARY 1-DECEMBER 31, 1960

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity <sup>1</sup>			Total <sup>1</sup>		
	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total
	'000 tons								
Newfoundland .....	—	—	—						
Prince Edward Island .....	—	—	—						
Nova Scotia .....	—	—	—						
New Brunswick .....	—	—	—						
Quebec .....	—	1	1						
Ontario .....	16	17	33						
Manitoba .....	3	—	3						
Saskatchewan .....	—	2	2						
Alberta .....	155	92	247						
Yukon and Northwest Territories .....	2	2	4						
United States .....	136	132	268						
<b>Totals</b> .....	<b>312</b>	<b>246</b>	<b>558</b>						

<sup>1</sup> Reliable estimates not available.

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	66	2,079	35,262	17.0	536.4	831	2.4
Animals and animal products .....	20	1,028	14,583	14.2	742.4	467	3.2
Mine products .....	16	115	1,972	17.2	125.7	81	4.1
Forest products .....	46	640	13,334	20.8	288.7	379	2.8
Manufactures and miscellaneous .....	280	10,987	148,104	13.5	528.7	6,127	4.1
N.O.S. general freight .....	130	6,000	94,340	15.7	723.8	4,886	5.2
<b>Totals</b> .....	<b>558</b>	<b>20,849</b>	<b>307,595</b>	<b>14.8</b>	<b>551.5</b>	<b>12,771</b>	<b>4.2</b>
	Private intercity <sup>1</sup>						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....							
Animals and animal products .....							
Mine products .....							
Forest products .....							
Manufactures and miscellaneous .....							
N.O.S. general freight .....							
<b>Totals</b> .....							

<sup>1</sup> Reliable estimates not available.

## APPENDIX

Type of operation	A. Population							Total
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over		
Estimated British Columbia truck population in 1960								
For hire .....	83	700	458	793	1,855	2,111	6,000	
Private:								
Intercity .....	12,897	10,156	913	988	1,400	1,916	28,270	
Urban .....	24,069	20,861	2,798	2,013	2,445	1,369	53,555	
Farm .....	6,393	4,658	739	266	102	17	12,175	
<b>Totals .....</b>	<b>43,442</b>	<b>36,375</b>	<b>4,908</b>	<b>4,060</b>	<b>5,802</b>	<b>5,413</b>	<b>100,000</b>	
B. Survey Response								
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable		
For hire .....	1,972		1,059		487			426
Private:								
Intercity .....	2,806		1,022		863			921
Urban .....	4,769		1,731		1,455			1,583
Farm .....	666		238		210			218
<b>Totals .....</b>	<b>10,213</b>		<b>4,050</b>		<b>3,015</b>			<b>3,148</b>



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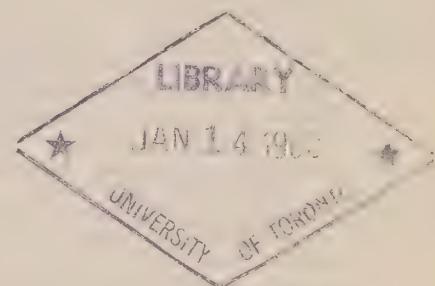


Canada. Statistics, Bureau of

III

**MOTOR TRANSPORT TRAFFIC**  
**PROVINCE OF BRITISH COLUMBIA**

**1961**



*Published by Authority of*  
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PROVINCE OF BRITISH COLUMBIA

JANUARY 1—DECEMBER 31, 1961

CHART-1 TRUCK REGISTRATIONS BY TYPE OF OPERATION

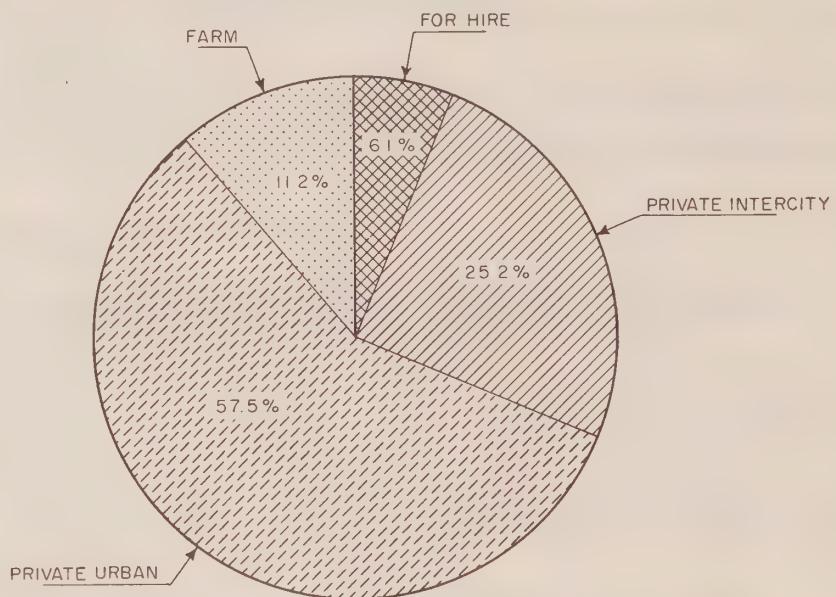
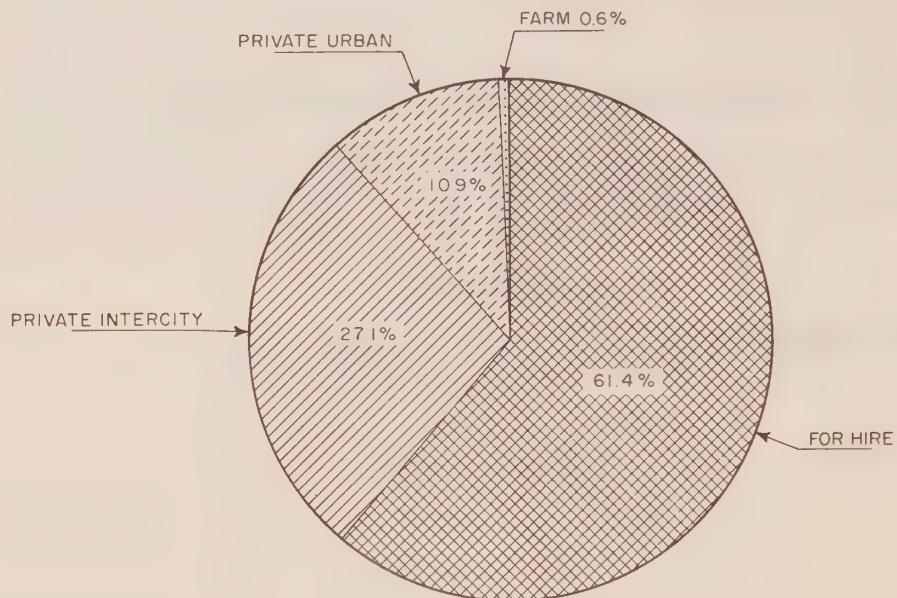


CHART-2 NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1961 annual report of motor transport traffic in the Province of British Columbia is based upon a sample of approximately 11 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A total truck population has to be determined. Fortunately an exact count of "E", "G", "H" and "J" licensed vehicles is available each quarter so it is only necessary to estimate the private truck population. This is done by multiplying the number of private vehicles chosen in each sample by the inverse of the sample selection ratios. In this way a total truck population is determined for each quarter. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year calculated as described above.
2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already done for for hire vehicles as the population of these vehicles received each quarter gives the gross vehicle weight of each truck. The gross vehicle weight group distribution of the

For hire trucks ("E" "G" "H" and "J" carriers) are registered separately in British Columbia while a restricted "F" licence is available to farmers. Vehicles falling in these categories therefore can be easily allocated to the appropriate class. However, for other trucks it is necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" or "farm".

In this report vehicles have been classified into the four functional categories as follows:

For hire	— "E", "G", "H" and "J" carrier licensed vehicles operated in intercity service and/or urban areas.
Private intercity	— private non-farm vehicles operating beyond urban areas.
Private urban	— private vehicles operating only within urban areas.
Farm	— "F" licensed vehicles and other private vehicles owned and operated by farmers.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957 to 1960.

### Expansion of Survey Results

for hire constant truck population is therefore the actual distribution recorded for that population. For private vehicles this problem is also partially solved as sample selections are stratified by weight group. Therefore it is only necessary to multiply the sample of private trucks in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly private truck populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is applied to the constant private truck population.

The private truck population then has to be distributed by function. This is done by using the average distribution obtained from the previous year's completed questionnaires. The above procedure for private vehicles was introduced in 1959. Prior to that year the distribution by function was determined from completed questionnaires for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For private intercity, private urban and most farm vehicles this can only be done from completed questionnaires as they do not have distinctive

licence categories. For hire vehicles can be identified immediately by their "E", "G", "H" and "J" licences while some farm vehicles obtain an "F" licence.

4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
6. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

### Review of Survey Results

The estimated population of trucks performing transportation services in British Columbia during the year rose 1.9 per cent to 101,900 from 100,000 in 1960. Of these 6,200 or 6.1 per cent were for hire trucks; 25,718 or 25.2 per cent were private intercity vehicles; 58,608 or 57.5 per cent were private vehicles operating wholly within urban areas; and 11,374 or 11.2 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

#### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by British Columbia registered trucks.

Although comprising only 6.1 per cent of British Columbia's truck population for hire vehicles accounted for 61.4 per cent of the total net ton miles and 36.5 per cent of the total tons of goods carried during 1961. This results from the high average yearly mileage of these trucks, 21,000 miles as compared with 6,400 miles for all trucks, and from the heavy average load carried of 11.5 tons compared to 6.3 tons for all trucks. Since almost three quarters of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of

heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline 5.8 compared with 10.0 for all trucks.

It is estimated that urban operations accounted for 8.1 per cent of the total ton miles performed by British Columbia registered for hire trucks and 1.7 per cent of the total ton miles performed by private intercity vehicles.

Some trucks in British Columbia under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 21 per cent of the total mileage travelled by British Columbia registered trucks.

#### Section II: Traffic Within the Province

This section presents estimates of traffic performed by British Columbia registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 44.8 per cent and private intercity 37.6 per cent of their total net ton miles outside British Columbia.

#### Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing almost one half of the total net ton miles performed and over one fifth of the revenue earned by these vehicles. Over three quarters of the total tons of goods carried in this type of traffic by British Columbia registered for hire trucks was transported to or from Alberta or the United States.

### Appendix

During the year survey questionnaires were sent to the owners or operators of 10,794 trucks. Of this number 4,427 were returned completed and 3,146

trucks were reported not used during the survey week. The remaining 3,221 were either returned incomplete and unusable or not returned at all.

**SECTION I. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE**  
**JANUARY 1-DECEMBER 31, 1961**

**TABLE 1. All Trucks by Type of Operation**

	For hire	Private			Total
		Intercity	Urban	Farm	
<b>Mileage:</b>					
Total mileage travelled .....	'000	129,898	213,543	269,053	38,590
Average yearly mileage per truck .....		21,000	8,300	4,600	3,400
Average distance each ton was carried .....		55.1	42.8	8.6	13.5
Percentage of total mileage travelled empty .....		29.1	67.2	62.8	73.3
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	'000	12,705	18,048	23,615	2,866
Miles per gallon of gasoline .....		5.8	10.6	11.4	13.5
Total gallons of diesel oil consumed .....	'000	9,457	3,767	—	—
Miles per gallon of diesel oil .....		6.0	5.7	—	—
Total gallons of other fuel consumed .....	'000	—	127	—	—
Miles per gallon of other fuel .....		—	5.5	—	—
<b>Weight of goods carried:</b>					
Total tons of goods carried .....	'000	19,167	10,909	21,631	740
Average weight carried <sup>1</sup> .....	ton	11.5	6.7	1.9	1.0
<b>Net ton miles:</b>					
Total net ton miles performed .....	'000	1,056,890	467,121	186,689	9,998
Average net ton miles per truck .....		170,500	18,200	3,200	900
<b>Capacity ton miles:</b>					
Total capacity ton miles <sup>2</sup> .....	'000	1,880,392	1,060,078	601,581	54,644
Average capacity ton miles per truck .....		303,300	41,200	10,300	4,800
Percentage of capacity utilized .....		56.2	44.1	31.0	18.3
<b>Gross ton miles:</b>					
Total gross ton miles <sup>3</sup> .....	'000	2,450,237	1,315,632	834,149	88,111
Average gross ton miles per truck .....		395,200	51,200	14,200	7,700
<b>Revenue:</b>					
Total revenue .....	\$'000	84,559	—	—	—
Revenue per ton mile .....	¢	8.0	—	—	—
Revenue per mile (total mileage travelled) .....	¢	65.1	—	—	—
Average revenue per truck .....	\$	13,600	—	—	—
Estimated annual population .....		6,200	25,718	58,608	11,374
					101,900

**TABLE 2. All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	192,732	212,551	22,662	21,934	52,373	148,832
Average yearly mileage per truck .....		4,400	5,700	4,500	5,300	9,000	24,700
Average distance each ton was carried .....		26.2	17.4	16.6	14.7	13.2	42.6
Percentage of total mileage travelled empty .....		78.0	68.8	37.3	33.8	37.3	31.4
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	12,299	16,936	2,424	2,952	7,621	15,002
Miles per gallon of gasoline .....		15.7	12.5	9.3	7.4	6.8	4.7
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	13,224
Miles per gallon of diesel oil .....		—	—	—	—	—	5.9
Total gallons of other fuel consumed .....	'000	—	—	—	—	127	—
Miles per gallon of other fuel .....		—	—	—	—	5.5	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	473	1,920	1,386	2,687	11,737	34,244
Average weight carried <sup>1</sup> .....	ton	0.3	0.5	1.6	2.7	4.7	14.3
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	12,412	33,454	23,055	39,545	155,133	1,457,099
Average net ton miles per truck .....		300	900	4,600	9,600	26,700	241,800
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	153,321	259,185	71,719	111,762	404,472	2,596,236
Average capacity ton miles per truck .....		3,500	7,000	14,200	27,000	69,500	430,800
Percentage of capacity utilized .....		8.1	12.9	32.1	35.4	38.4	56.1
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	312,457	467,704	101,454	131,560	412,849	3,262,105
Average gross ton miles per truck .....		7,100	12,800	20,100	31,800	70,900	541,200
Estimated annual population .....		43,710	37,152	5,055	4,136	5,820	6,027
							101,900

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles	\$'000	¢	
20,000 lb. and under .....	848	8,896	15,353	1.7	18.1	9,692	63.1
20,001-30,000 lb. .....	3,741	14,455	65,362	4.5	17.5	14,080	21.5
30,001-50,000 lb. .....	9,041	18,326	174,510	9.5	19.3	17,584	10.1
50,001 lb. and over .....	5,537	50,413	801,665	15.9	144.8	43,203	5.4
<b>Totals .....</b>	<b>19,167</b>	<b>92,090</b>	<b>1,056,890</b>	<b>11.5</b>	<b>55.1</b>	<b>84,559</b>	<b>8.0</b>
Private intercity							
Weight of goods carried	Total miles travelled with load			Total net ton miles	Average weight carried	Average distance per ton	
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	342	25,636	11,839	0.5	34.6		
10,001-20,000 lb. .....	666	9,169	18,539	2.0	27.9		
20,001-30,000 lb. .....	2,204	9,041	42,735	4.7	19.4		
30,001 lb. and over .....	7,697	26,208	394,008	15.0	51.2		
<b>Totals .....</b>	<b>10,909</b>	<b>70,054</b>	<b>467,121</b>	<b>6.7</b>	<b>42.8</b>		

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles	\$'000	¢	
Live animals .....	54	813	8,686	10.7	162.3	519	6.0
Food, feed, beverages and tobacco .....	1,590	13,535	164,163	12.1	103.3	11,132	6.8
Crude materials, inedible .....	7,255	6,657	91,992	13.8	12.7	7,123	7.7
Fabricated materials, inedible .....	5,221	18,169	258,124	14.2	49.4	17,706	6.9
End products, inedible .....	1,008	16,306	121,702	7.5	120.7	13,428	11.0
General freight .....	4,039	36,610	412,223	11.2	102.1	34,651	8.4
<b>Totals .....</b>	<b>19,167</b>	<b>92,090</b>	<b>1,056,890</b>	<b>11.5</b>	<b>55.1</b>	<b>84,559</b>	<b>8.0</b>
Private intercity							
Weight of goods carried	Total miles travelled with load			Total net ton miles	Average weight carried	Average distance per ton	
	'000 tons	'000	'000	tons	miles		
Live animals .....	27	911	3,954	4.3	146.2		
Food, feed, beverages and tobacco .....	1,144	19,319	97,340	5.0	85.1		
Crude materials, inedible .....	6,056	7,903	98,620	12.5	16.3		
Fabricated materials, inedible .....	2,883	14,165	151,081	10.7	52.4		
End products, inedible .....	442	19,033	68,866	3.6	156.0		
General freight .....	357	8,723	47,260	5.4	132.4		
<b>Totals .....</b>	<b>10,909</b>	<b>70,054</b>	<b>467,121</b>	<b>6.7</b>	<b>42.8</b>		

**SECTION II. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS WITHIN THE PROVINCE**  
**JANUARY 1-DECEMBER 31, 1961**

TABLE 5. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
<b>Mileage:</b>					
Total mileage travelled .....	'000	93,440	195,650	269,053	38,590 596,733
Average yearly mileage per truck .....		15,100	7,600	4,600	3,400 5,900
Average distance each ton was carried .....		30.8	27.5	8.6	13.5 20.6
Percentage of total mileage travelled empty.....		34.3	70.7	62.8	73.3 61.6
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	'000	11,261	17,036	23,615	2,866 54,778
Miles per gallon of gasoline .....		5.9	10.8	11.4	13.5 10.2
Total gallons of diesel oil consumed .....	'000	4,553	1,887	—	— 6,440
Miles per gallon of diesel oil .....		6.0	5.6	—	— 5.9
Total gallons of other fuel consumed .....	'000	—	112	—	— 112
Miles per gallon of other fuel .....		—	5.1	—	— 5.1
<b>Weight of goods carried:</b>					
Total tons of goods carried .....	'000	18,946	10,621	21,631	740 51,938
Average weight carried <sup>1</sup> .....	ton	9.5	5.1	1.9	1.0 4.7
<b>Net ton miles:</b>					
Total net ton miles performed .....	'000	583,689	291,587	186,689	9,998 1,071,963
Average net ton miles per truck .....		94,100	11,300	3,200	900 10,500
<b>Capacity ton miles:</b>					
Total capacity ton miles <sup>2</sup> .....	'000	1,231,628	785,207	601,581	54,644 2,673,060
Average capacity ton miles per truck .....		198,700	30,500	10,300	4,800 26,200
Percentage of capacity utilized.....		47.4	37.1	31.0	18.3 40.1
<b>Gross ton miles:</b>					
Total gross ton miles <sup>3</sup> .....	'000	1,457,089	943,867	834,149	88,111 3,323,216
Average gross ton miles per truck .....		234,800	36,700	14,200	7,700 32,600
<b>Revenue:</b>					
Total revenue: .....	\$'000	66,300	—	—	—
Revenue per ton mile .....	€	11.4	—	—	—
Revenue per mile (total mileage travelled) .....	€	71.0	—	—	—
Average revenue per truck .....	\$	10,700	—	—	—
Estimated annual population .....		6,200	25,718	58,608	11,374 101,900

TABLE 6. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	192,732	210,169	22,602	21,305	51,761	98,164 596,733
Average yearly mileage per truck .....		4,400	5,700	4,500	5,200	8,900	16,300 5,900
Average distance each ton was carried .....		26.2	17.2	16.6	14.8	13.1	24.0 20.6
Percentage of total mileage travelled empty.....		78.0	69.0	37.2	33.7	37.4	38.1 61.6
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	12,299	16,776	2,418	2,871	7,566	12,848 54,778
Miles per gallon of gasoline .....		15.7	12.5	9.3	7.4	6.8	4.7 10.2
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	6,440 6,440
Miles per gallon of diesel oil .....		—	—	—	—	—	5.9 5.9
Total gallons of other fuel consumed .....	'000	—	—	—	—	112	— 112
Miles per gallon of other fuel .....		—	—	—	—	5.1	— 5.1
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	473	1,920	1,386	2,542	11,733	33,884 51,938
Average weight carried <sup>1</sup> .....	ton	0.3	0.5	1.6	2.7	4.7	13.4 4.7
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	12,412	33,033	22,945	37,634	153,488	812,451 1,071,963
Average net ton miles per truck .....		300	900	4,500	9,100	26,400	134,800 10,500
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	153,321	256,819	71,501	107,682	399,719	1,684,018 2,673,060
Average capacity ton miles per truck .....		3,500	6,900	14,100	26,000	68,700	279,400 26,200
Percentage of capacity utilized.....		8.1	12.9	32.1	34.9	38.4	48.2 40.1
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	312,457	463,069	101,126	127,049	408,200	1,911,315 3,323,216
Average gross ton miles per truck .....		7,100	12,500	20,000	30,700	70,100	317,100 32,600
Estimated annual population .....		43,710	37,152	5,055	4,136	5,820	6,027 101,900

<sup>1</sup> Net ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS  
JANUARY 1-DECEMBER 31, 1961

TABLE 7. Tons of goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity <sup>1</sup>			Total <sup>1</sup>		
	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total
'000 tons									
Newfoundland .....	—	—	—						
Prince Edward Island .....	—	—	—						
Nova Scotia .....	—	—	—						
New Brunswick .....	—	—	—						
Quebec .....	4	—	4						
Ontario .....	30	16	46						
Manitoba .....	14	16	30						
Saskatchewan .....	—	75	75						
Alberta .....	254	80	334						
Yukon and Northwest Territories .....	—	8	8						
United States .....	110	112	222						
Totals .....	412	307	719						

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals .....	—	—	—	—	—	—	—
Food, feed, beverages and tobacco .....	75	3,916	74,175	18.9	984.0	2,461	3.3
Crude materials, inedible .....	44	723	13,243	18.3	302.7	485	3.7
Fabricated materials, inedible .....	299	4,678	86,496	18.5	289.1	3,063	3.5
End products, inedible .....	64	7,806	77,866	10.0	1,218.0	4,769	6.1
General freight .....	237	13,162	222,505	16.9	940.8	7,784	3.5
Totals .....	719	30,285	474,285	15.7	659.9	18,562	3.9
Private intercity <sup>1</sup>							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals .....							
Food, feed, beverages and tobacco .....							
Crude materials, inedible .....							
Fabricated materials, inedible .....							
End products, inedible .....							
General freight .....							
Totals .....							

<sup>1</sup>Reliable estimates not available.

## APPENDIX

Type of operation	A. Population						
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated British Columbia truck population in 1961							
For hire .....	86	600	359	571	1,841	2,743	6,200
<b>Private:</b>							
Intercity .....	10,829	9,789	1,138	857	1,410	1,695	25,718
Urban .....	27,329	22,494	2,562	2,240	2,410	1,573	58,608
Farm .....	5,466	4,269	996	468	159	16	11,374
<b>Totals .....</b>	<b>43,710</b>	<b>37,152</b>	<b>5,055</b>	<b>4,136</b>	<b>5,820</b>	<b>6,027</b>	<b>101,900</b>
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable	
For hire .....	2,198	1,146		496		556	
<b>Private:</b>							
Intercity .....	2,855	1,085		853		917	
Urban .....	4,854	1,889		1,495		1,470	
Farm .....	887	307		302		278	
<b>Totals .....</b>	<b>10,794</b>	<b>4,427</b>		<b>3,146</b>		<b>3,221</b>	



CATALOGUE No.

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16



**MOTOR TRANSPORT TRAFFIC**  
PROVINCE OF BRITISH COLUMBIA

**1962**



*Statistics*  
Published by Authority of  
The Minister of Trade and Commerce

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8504-554

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PROVINCE OF BRITISH COLUMBIA  
JANUARY 1- DECEMBER 31, 1962

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

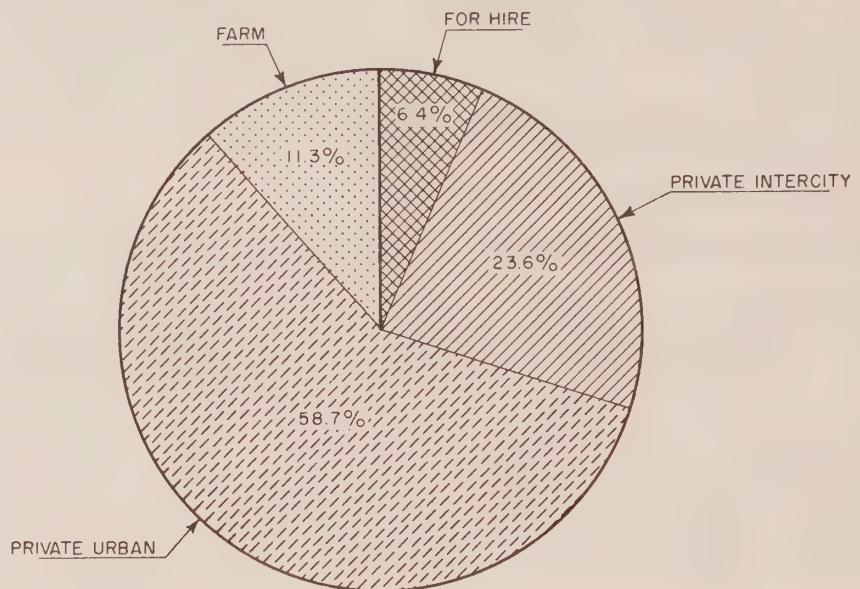
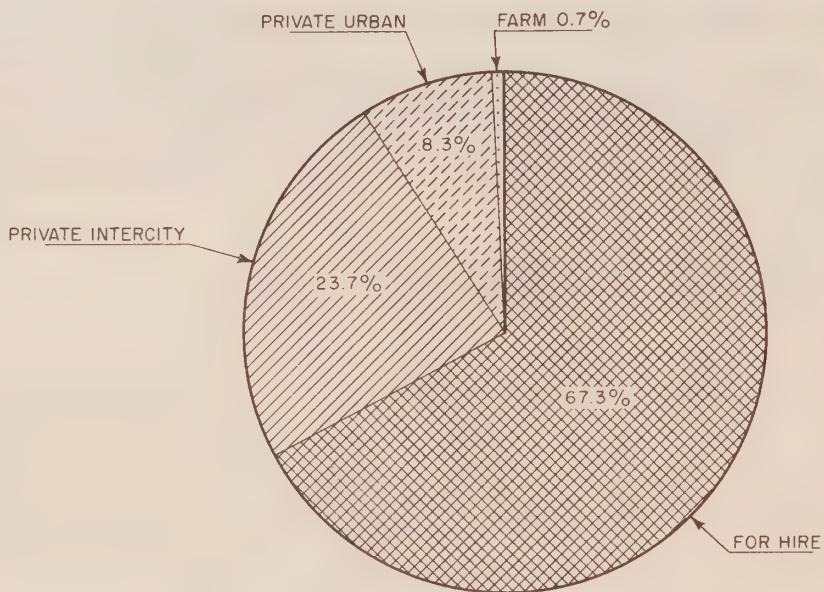


CHART-2

NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1962 annual report of motor transport traffic in the Province of British Columbia is based upon a sample of approximately 10 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

### Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A total truck population has to be determined. Fortunately an exact count of "E", "G", "H" and "J" licensed vehicles is available each quarter so it is only necessary to estimate the private truck population. This is done by multiplying the number of private vehicles chosen in each sample by the inverse of the sample selection ratios. In this way a total truck population is determined for each quarter. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year calculated as described above.
2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already done for for hire vehicles as the population of these vehicles received each quarter gives the gross vehicle weight of each truck. The gross vehicle weight group distribution of the

For hire trucks ("E" "G" "H" and "J" carriers) are registered separately in British Columbia while a restricted "F" licence is available to farmers. Vehicles falling in these categories therefore can be easily allocated to the appropriate class. However, for other trucks it is necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" or "farm".

In this report vehicles have been classified into the four functional categories as follows:

For hire	— "E", "G", "H" and "J" carrier licensed vehicles operated in intercity service and/or urban areas.
Private intercity	— private non-farm vehicles operating beyond urban areas.
Private urban	— private vehicles operating only within urban areas.
Farm	— "F" licensed vehicles and other private vehicles owned and operated by farmers.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", Catalogue No. 53-207, for 1957 to 1961.

for hire constant truck population is therefore the actual distribution recorded for that population. For private vehicles this problem is also partially solved as sample selections are stratified by weight group. Therefore it is only necessary to multiply the sample of private trucks in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly private truck populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is applied to the constant private truck population.

The private truck population then has to be distributed by function. This is done by using the average distribution obtained from the previous year's completed questionnaires. The above procedure for private vehicles was introduced in 1959. Prior to that year the distribution by function was determined from completed questionnaires for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For private intercity, private urban and most farm vehicles this can only be done from completed questionnaires as they do not have distinctive

licence categories. For hire vehicles can be identified immediately by their "E", "G", "H" and "J" licences while some farm vehicles obtain an "F" licence.

4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
6. The expanded data for the four quarters are added together to arrive at an annual total.

#### Review of Survey Results

The estimated population of trucks performing transportation services in British Columbia during the year rose slightly less than 1.0 per cent to 102,300 from 101,900 in 1961. Of these 6,600 or 6.4 per cent were for hire trucks; 24,143 or 23.6 per cent were private intercity vehicles; 60,010 or 58.7 per cent were private vehicles operating wholly within urban areas; and 11,547 or 11.3 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

#### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by British Columbia registered trucks.

Although comprising only 6.4 per cent of British Columbia's truck population for hire vehicles accounted for 67.3 per cent of the total net ton miles and 40.7 per cent of the total tons of goods carried during 1962. This results from the high average yearly mileage of these trucks, 21,900 miles as compared with 6,700 miles for all trucks, and from the heavy average load carried of 12.9 tons compared to 6.5 tons for all trucks. Since three quarters of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline 6.1 compared with 10.0 for all trucks.

It is estimated that urban operations accounted for 9.9 per cent of the total ton miles performed by British Columbia registered for hire trucks and 3.4 per cent of the total ton miles performed by private intercity vehicles.

Some trucks in British Columbia under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 19 per cent of the total mileage travelled by British Columbia registered trucks.

#### Section II: Traffic Within the Province

This section presents estimates of traffic performed by British Columbia registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 38 per cent and private intercity 27 per cent of their total net ton miles outside British Columbia.

#### Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing almost one half of the total net ton miles performed and over one quarter of the revenue earned by these vehicles. Over four fifths of the total tons of goods carried in this type of traffic by British Columbia registered for hire trucks was transported to or from Alberta or the United States.

#### Appendix

During the year survey questionnaires were sent to the owners or operators of 11,216 trucks. Of this number 4,549 were returned completed and 3,046

trucks were reported not used during the survey week. The remaining 3,621 were either returned incomplete and unusable or not returned at all.

**SECTION 1. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE**  
**JANUARY 1-DECEMBER 31, 1962**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
<b>Mileage:</b>					
Total mileage travelled .....	'000	144,810	211,520	286,879	684,233
Average yearly mileage per truck .....		21,900	8,800	4,800	6,700
Average distance each ton was carried .....		58.5	41.1	7.9	35.4
Percentage of total mileage travelled empty .....		29.2	65.2	61.4	56.0
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	'000	11,367	17,679	25,654	57,980
Miles per gallon of gasoline .....		6.1	10.5	11.2	10.0
Total gallons of diesel oil consumed .....	'000	13,431	4,172	—	17,603
Miles per gallon of diesel oil .....		5.7	5.9	—	5.7
Total gallons of other fuel consumed .....	'000	—	144	—	144
Miles per gallon of other fuel .....		—	7.2	—	7.2
<b>Weight of goods carried:</b>					
Total tons of goods carried .....	'000	22,592	11,334	20,741	55,567
Average weight carried <sup>1</sup> .....	ton	12.9	6.3	1.5	6.5
<b>Net ton miles:</b>					
Total net ton miles performed .....	'000	1,322,282	465,786	163,404	1,966,046
Average net ton miles per truck .....		200,300	19,300	2,700	19,200
<b>Capacity ton miles:</b>					
Total capacity ton miles <sup>2</sup> .....	'000	2,337,269	1,096,427	622,393	4,122,672
Average capacity ton miles per truck .....		354,100	45,400	10,400	40,300
Percentage of capacity utilized .....		56.6	42.5	26.3	47.7
<b>Gross ton miles:</b>					
Total gross ton miles <sup>3</sup> .....	'000	2,981,571	1,372,268	874,319	5,330,759
Average gross ton miles per truck .....		451,800	56,800	14,600	52,100
<b>Revenue:</b>					
Total revenue .....	\$'000	98,339	—	—	—
Revenue per ton mile .....	¢	7.4	—	—	—
Revenue per mile (total mileage travelled) .....	¢	67.9	—	—	—
Average revenue per truck .....	\$	14,900	—	—	—
Estimated annual population .....		6,600	24,143	60,010	11,547
					102,300

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	192,213	219,943	22,025	26,852	57,287	165,913
Average yearly mileage per truck .....		4,600	5,700	5,700	5,600	8,300	26,700
Average distance each ton was carried .....		23.6	19.6	16.4	13.9	12.7	47.6
Percentage of total mileage travelled empty .....		75.1	67.3	38.7	35.3	39.6	30.0
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	12,578	18,008	2,477	3,367	8,301	13,249
Miles per gallon of gasoline .....		15.3	12.2	8.9	8.0	6.8	4.9
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	17,603
Miles per gallon of diesel oil .....		—	—	—	—	—	5.7
Total gallons of other fuel consumed .....	'000	—	—	—	—	132	12
Miles per gallon of other fuel .....		—	—	—	—	7.5	4.2
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	640	2,141	1,356	3,506	12,689	35,235
Average weight carried <sup>1</sup> .....	ton	0.3	0.6	1.6	2.8	4.6	14.5
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	15,063	41,905	22,252	48,679	160,700	1,677,447
Average net ton miles per truck .....		400	1,100	5,800	10,200	23,300	270,400
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	156,515	266,124	69,236	139,479	445,163	3,046,155
Average capacity ton miles per truck .....		3,700	6,900	18,000	29,200	64,600	491,000
Percentage of capacity utilized .....		9.6	15.7	32.1	34.9	36.1	55.1
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	316,450	487,915	98,019	158,330	457,310	3,812,735
Average gross ton miles per truck .....		7,600	12,600	25,500	33,100	66,400	614,600
Estimated annual population .....		41,785	38,792	3,847	4,782	6,890	6,204
							102,300

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles	\$'000	¢	
20,000 lb. and under .....	1,024	8,710	16,680	1.9	16.3	8,279	49.6
20,001-30,000 lb. .....	4,464	13,721	65,548	4.8	14.7	15,390	23.5
30,001-50,000 lb. .....	7,815	13,947	134,837	9.7	17.3	14,190	10.5
50,001 lb. and over .....	9,289	66,185	1,105,217	16.7	119.0	60,480	5.5
<b>Totals .....</b>	<b>22,592</b>	<b>102,563</b>	<b>1,322,282</b>	<b>12.9</b>	<b>58.5</b>	<b>98,339</b>	<b>7.4</b>
Private intercity							
Weight of goods carried	Total miles travelled with load			Total net ton miles	Average weight carried	Average distance per ton	
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	217	24,644	9,424	0.4	43.4		
10,001-20,000 lb. .....	707	7,918	19,047	2.4	27.0		
20,001-30,000 lb. .....	2,312	10,827	51,507	4.8	22.3		
30,001 lb. and over .....	8,098	30,143	385,808	12.8	47.6		
<b>Totals .....</b>	<b>11,334</b>	<b>73,532</b>	<b>465,786</b>	<b>6.3</b>	<b>41.1</b>		

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles	\$'000	¢	
Live animals .....	75	539	5,714	10.6	76.1	575	10.1
Food, feed, beverages and tobacco .....	1,791	18,818	261,472	13.9	146.0	14,008	5.4
Crude materials, inedible .....	8,009	7,411	110,013	14.8	13.7	7,772	7.1
Fabricated materials, inedible .....	6,395	22,992	367,109	16.0	57.4	23,852	6.5
End products, inedible .....	1,164	11,910	106,023	8.9	91.1	11,097	10.5
General freight .....	5,158	40,893	471,951	11.5	91.5	41,035	8.7
<b>Totals .....</b>	<b>22,592</b>	<b>102,563</b>	<b>1,322,282</b>	<b>12.9</b>	<b>58.5</b>	<b>98,339</b>	<b>7.4</b>
Private intercity							
Weight of goods carried	Total miles travelled with load			Total net ton miles	Average weight carried	Average distance per ton	
	'000 tons	'000	'000	tons	miles		
Live animals .....	15	324	4,024	12.4	269.6		
Food, feed, beverages and tobacco .....	1,176	15,492	82,457	5.3	70.1		
Crude materials, inedible .....	4,644	6,439	86,698	13.5	18.7		
Fabricated materials, inedible .....	3,930	15,970	152,019	9.5	38.7		
End products, inedible .....	903	20,601	51,912	2.5	57.5		
General freight .....	666	14,706	88,676	6.0	133.1		
<b>Totals .....</b>	<b>11,334</b>	<b>73,532</b>	<b>465,786</b>	<b>6.3</b>	<b>41.1</b>		

**SECTION II. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS WITHIN THE PROVINCE**  
**JANUARY 1-DECEMBER 31, 1962**

TABLE 5. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
<b>Mileage:</b>						
Total mileage travelled.....	'000	107,304	191,893	286,879	41,024	627,100
Average yearly mileage per truck.....		16,300	7,900	4,800	3,600	6,100
Average distance each ton was carried.....		36.4	30.5	7.9	16.2	24.1
Percentage of total mileage travelled empty.....		33.0	67.8	61.4	65.2	58.7
<b>Fuel:</b>						
Total gallons of gasoline consumed.....	'000	10,251	16,541	25,654	3,280	55,726
Miles per gallon of gasoline.....		6.1	10.6	11.2	12.5	10.1
Total gallons of diesel oil consumed.....	'000	8,056	2,745	—	—	10,801
Miles per gallon of diesel oil.....		5.6	5.7	—	—	5.6
Total gallons of other fuel consumed.....	'000	—	144	—	—	144
Miles per gallon of other fuel.....		—	7.2	—	—	7.2
<b>Weight of goods carried:</b>						
Total tons of goods carried.....	'000	22,346	11,128	20,741	900	55,115
Average weight carried <sup>1</sup> .....	ton	11.3	5.5	1.5	1.0	5.1
<b>Net ton miles:</b>						
Total net ton miles performed.....	'000	812,728	339,901	163,404	14,574	1,330,807
Average net ton miles per truck.....		123,100	14,100	2,706	1,300	13,000
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	1,610,697	879,326	622,393	66,583	3,178,999
Average capacity ton miles per truck.....		244,000	36,400	10,400	5,800	31,100
Percentage of capacity utilized.....		50.5	38.7	28.3	21.9	41.9
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	1,910,946	1,076,099	874,319	102,601	3,963,965
Average gross ton miles per truck.....		289,500	44,600	14,600	8,900	38,700
<b>Revenue:</b>						
Total revenue.....	\$'000	76,625	—	—	—	—
Revenue per ton mile.....	¢	9.4	—	—	—	—
Revenue per mile (total mileage travelled).....	¢	71.4	—	—	—	—
Average revenue per truck.....	\$	11,600	—	—	—	—
Estimated annual population.....		6,606	24,143	60,010	11,547	102,300

TABLE 6. All Trucks by Gross Vehicle Weight Group

	0 - 2½ tons 0 - 5,000 lb.	2½ - 5 tons 5,001 - 10,000 lb.	5 - 7½ tons 10,001 - 15,000 lb.	7½ - 10 tons 15,001 - 20,000 lb.	10 - 15 tons 20,001 - 30,000 lb.	Over 15 tons 30,001 lb. and over	Total	
<b>Mileage:</b>								
Total mileage travelled.....	'000	190,951	214,926	21,456	26,216	55,836	117,715	627,100
Average yearly mileage per truck.....		4,600	5,500	5,600	5,500	8,100	19,000	6,100
Average distance each ton was carried.....		23.6	19.1	16.4	13.0	12.4	30.2	24.1
Percentage of total mileage travelled empty.....		74.9	67.2	37.5	35.9	39.6	34.9	58.7
<b>Fuel:</b>								
Total gallons of gasoline consumed.....	'000	12,507	17,595	2,404	3,292	8,118	11,810	55,726
Miles per gallon of gasoline.....		15.3	12.2	8.9	8.0	6.8	4.8	10.1
Total gallons of diesel oil consumed.....	'000	—	—	—	—	—	10,801	10,801
Miles per gallon of diesel oil.....		—	—	—	—	—	5.6	5.6
Total gallons of other fuel consumed.....	'000	—	—	—	—	132	12	144
Miles per gallon of other fuel.....		—	—	—	—	7.5	4.2	7.2
<b>Weight of goods carried:</b>								
Total tons of goods carried.....	'000	640	2,129	1,355	3,500	12,674	34,817	55,115
Average weight carried <sup>1</sup> .....	ton	0.3	0.8	1.7	2.7	4.7	13.7	5.1
<b>Net ton miles:</b>								
Total net ton miles performed.....	'000	15,063	40,699	22,227	45,409	157,035	1,050,174	1,330,607
Average net ton miles per truck.....		400	1,000	5,800	9,500	22,800	169,300	13,000
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000	155,457	280,235	67,741	134,814	434,114	2,126,638	3,178,999
Average capacity ton miles per truck.....		3,700	6,700	17,600	28,200	63,000	342,800	31,100
Percentage of capacity utilized.....		9.7	15.6	32.8	33.7	36.2	49.4	41.9
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000	314,364	476,956	96,162	152,385	446,167	2,477,931	3,963,965
Average gross ton miles per truck.....		7,500	12,300	25,000	31,900	64,800	399,400	38,700
Estimated annual population.....		41,785	38,792	3,847	4,782	6,890	6,204	102,300

<sup>1</sup> Net ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

**SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS**  
**JANUARY 1-DECEMBER 31, 1962**

**TABLE 7. Tons of Goods Carried by Province of Origin and Destination**

Origin and destination	For hire			Private intercity <sup>1</sup>			Total <sup>1</sup>		
	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total
'000 tons									
Newfoundland .....	-	-	-						
Prince Edward Island .....	-	-	-						
Nova Scotia .....	-	-	-						
New Brunswick .....	-	-	-						
Quebec .....	-	10	10						
Ontario .....	18	33	51						
Manitoba .....	8	9	17						
Saskatchewan .....	4	9	13						
Alberta .....	281	186	467						
Yukon and Northwest Territories .....	11	29	40						
United States .....	102	386	488						
<b>Totals</b> .....	<b>424</b>	<b>662</b>	<b>1,086</b>						

**TABLE 8. Selected Statistics by Commodity Group**

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals .....	4	88	1,345	15.3	362.9	86	6.4
Food, feed, beverages and tobacco .....	142	8,043	144,345	17.9	1,021.7	4,588	3.2
Crude materials, inedible .....	172	1,042	20,674	19.8	119.6	574	2.8
Fabricated materials, inedible .....	268	4,991	88,993	17.8	331.7	3,491	3.9
End products, inedible .....	41	4,281	43,360	10.1	1,057.0	2,519	5.8
General freight .....	459	18,911	319,023	16.9	695.1	14,583	4.6
<b>Totals</b> .....	<b>1,086</b>	<b>37,356</b>	<b>617,740</b>	<b>16.5</b>	<b>568.7</b>	<b>25,841</b>	<b>4.2</b>
Private intercity <sup>1</sup>							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals .....							
Food, feed, beverages and tobacco .....							
Crude materials, inedible .....							
Fabricated materials, inedible .....							
End products, inedible .....							
General freight .....							
<b>Totals</b> .....							

<sup>1</sup> Reliable estimates not available.

## APPENDIX

Type of operation	A. Population							Total
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over		
Estimated British Columbia truck population in 1962								
For hire .....	93	610	369	577	1,867	3,084	6,600	
Private:								
Intercity .....	9,822	9,508	586	732	1,729	1,766	24,143	
Urban .....	27,460	23,162	2,268	2,908	2,868	1,344	60,010	
Farm .....	4,410	5,512	624	565	426	10	11,547	
<b>Totals .....</b>	<b>41,785</b>	<b>38,792</b>	<b>3,847</b>	<b>4,782</b>	<b>6,890</b>	<b>6,204</b>	<b>102,300</b>	
B. Survey Response								
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable		
For hire .....	2,169		1,107		448			614
Private:								
Intercity .....	3,118		1,209		854			1,055
Urban .....	4,977		1,891		1,439			1,647
Farm .....	952		342		305			305
<b>Totals .....</b>	<b>11,216</b>		<b>4,549</b>		<b>3,046</b>			<b>3,621</b>



CATALOGUE No.  
**53-214**  
ANNUAL



**MOTOR TRANSPORT TRAFFIC**  
**PROVINCE OF BRITISH COLUMBIA**

**1963**



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**ROAD TRANSPORT**

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PROVINCE OF BRITISH COLUMBIA  
JANUARY 1-DECEMBER 31, 1963

CHART -1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

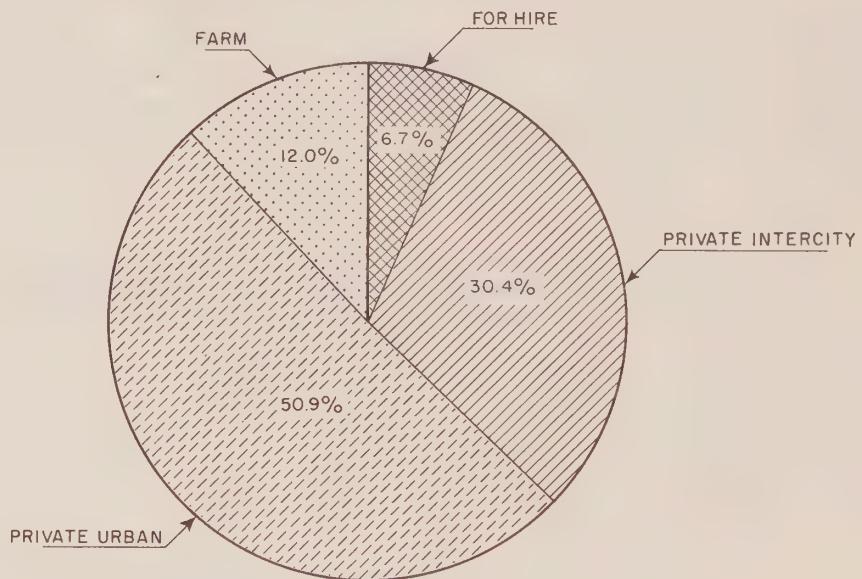
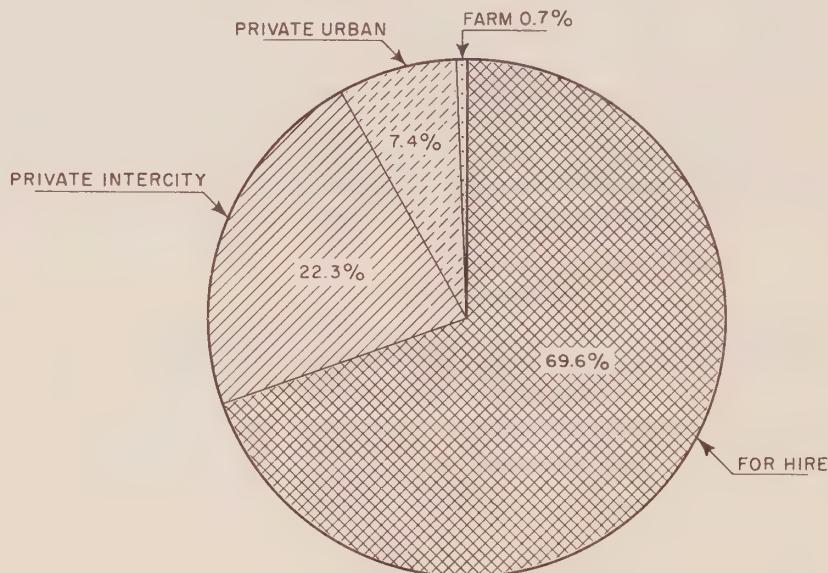


CHART -2

NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1963 annual report of motor transport traffic in the Province of British Columbia is based upon a sample of approximately 11 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

### Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A total truck population has to be determined. Fortunately an exact count of "E", "G", "H" and "J" licensed vehicles is available each quarter so it is only necessary to estimate the private truck population. This is done by multiplying the number of private vehicles chosen in each sample by the inverse of the sample selection ratios. In this way a total truck population is determined for each quarter. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year calculated as described above.
2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already done for for hire vehicles as the population of these vehicles received each quarter gives the gross vehicle weight of each truck. The gross vehicle weight group distribution of the

For hire trucks ("E" "G" "H" and "J" carriers) are registered separately in British Columbia while a restricted "F" licence is available to farmers. Vehicles falling in these categories therefore can be easily allocated to the appropriate class. However, for other trucks it is necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" or "farm".

In this report vehicles have been classified into the four functional categories as follows:

For hire	- "E", "G", "H" and "J" carrier licensed vehicles operated in intercity service and/or urban areas.
Private intercity	- private non-farm vehicles operating beyond urban areas.
Private urban	- private vehicles operating only within urban areas.
Farm	- "F" licensed vehicles and other private vehicles owned and operated by farmers.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", Catalogue No. 53-207, for 1957 to 1962.

for hire constant truck population is therefore the actual distribution recorded for that population. For private vehicles this problem is also partially solved as sample selections are stratified by weight group. Therefore it is only necessary to multiply the sample of private trucks in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly private truck populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is applied to the constant private truck population.

The private truck population then has to be distributed by function. This is done by using the average distribution obtained from the previous year's completed questionnaires. The above procedure for private vehicles was introduced in 1959. Prior to that year the distribution by function was determined from completed questionnaires for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For private intercity, private urban and most farm vehicles this can only be done from completed questionnaires as they do not have distinctive

licence categories. For hire vehicles can be identified immediately by their "E", "G", "H" and "J" licences while some farm vehicles obtain an "F" licence.

4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
6. The expanded data for the four quarters are added together to arrive at an annual total.

### Review of Survey Results

The estimated population of trucks performing transportation services in British Columbia during the year rose 1.4 per cent to 103,700 from 102,300 in 1962. Of these 6,900 or 6.7 per cent were for hire trucks; 31,477 or 30.4 per cent were private intercity vehicles; 52,863 or 50.9 per cent were private vehicles operating wholly within urban areas; and 12,460 or 12.0 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

#### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by British Columbia registered trucks.

Although comprising only 6.7 per cent of British Columbia's truck population for hire vehicles accounted for 69.6 per cent of the total net ton miles and 43.7 per cent of the total tons of goods carried during 1963. This results from the high average yearly mileage of these trucks, 24,000 miles as compared with 7,000 miles for all trucks, and from the heavy average load carried of 12.8 tons compared to 7.1 tons for all trucks. Since more than three quarters of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

class also explains the low estimate of miles per gallon of gasoline 6.3 compared with 10.2 for all trucks.

It is estimated that urban operations accounted for 8.3 per cent of the total ton miles performed by British Columbia registered for hire trucks and 3.1 per cent of the total ton miles performed by private intercity vehicles.

Some trucks in British Columbia under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 19.9 per cent of the total mileage travelled by British Columbia registered trucks.

#### Section II: Traffic Inside the Province

This section presents estimates of traffic performed by British Columbia registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 60.3 per cent and private intercity 73.4 per cent of their total net ton miles inside British Columbia.

#### Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing over one half of the total net ton miles performed and over one quarter of the revenue earned by these vehicles. Over four fifths of the total tons of goods carried in this type of traffic by British Columbia registered for hire trucks was transported to or from Alberta or the United States.

### Appendix

During the year survey questionnaires were sent to the owners or operators of 11,702 trucks. Of this number 4,616 were returned completed and 3,157

trucks were reported not used during the survey week. The remaining 3,929 were either returned incomplete and unusable or not returned at all.

**SECTION I. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE**  
**JANUARY 1 - DECEMBER 31, 1963**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
<b>Mileage:</b>						
Total mileage travelled .....	'000	165,385	268,535	251,048	44,094	729,062
Average yearly mileage per truck .....		24,000	8,500	4,700	3,500	7,000
Average distance each ton was carried.....		61.0	44.0	8.1	15.4	38.3
Percentage of total mileage travelled empty.....		27.8	69.7	62.7	65.8	57.6
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	12,395	21,851	22,236	3,530	60,012
Miles per gallon of gasoline .....		6.3	11.1	11.2	12.5	10.2
Total gallons of diesel oil consumed .....	'000	16,149	4,468	75	—	20,692
Miles per gallon of diesel oil .....		5.4	5.4	5.7	—	5.4
Total gallons of other fuel consumed .....	'000	—	185	146	—	331
Miles per gallon of other fuel .....		—	7.2	9.7	—	8.3
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	25,014	11,065	20,159	957	57,195
Average weight carried <sup>1</sup> .....	ton	12.8	6.0	1.7	1.0	7.1
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	1,525,345	487,370	162,602	14,750	2,190,067
Average net ton miles per truck .....		221,100	15,500	3,100	1,200	21,100
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	2,673,524	1,194,726	604,001	73,790	4,546,041
Average capacity ton miles per truck .....		387,500	38,000	11,400	5,900	43,800
Percentage of capacity utilized .....		57.1	40.8	26.9	20.0	48.2
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	3,480,378	1,531,944	804,790	110,855	5,927,967
Average gross ton miles per truck .....		504,400	48,700	15,200	8,900	57,200
<b>Revenue:</b>						
Total revenue .....	\$'000	123,223	—	—	—	—
Revenue per ton mile .....	¢	8.1	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	74.5	—	—	—	—
Average revenue per truck .....	\$	17,900	—	—	—	—
Estimated annual population .....		6,900	31,477	52,863	12,460	103,700

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total	
<b>Mileage:</b>								
Total mileage travelled .....	'000	172,304	268,075	21,491	27,930	57,690	181,572	729,062
Average yearly mileage per truck .....		4,500	6,200	5,800	6,000	8,400	27,900	7,000
Average distance each ton was carried.....		13.7	23.1	16.0	12.4	12.2	51.4	38.3
Percentage of total mileage travelled empty.....		79.1	70.8	41.3	36.1	36.9	29.5	57.6
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000	11,130	21,542	2,273	3,588	7,987	13,492	60,012
Miles per gallon of gasoline .....		15.5	12.3	9.3	7.7	7.1	5.2	10.2
Total gallons of diesel oil consumed .....	'000	—	54	17	—	9	20,612	20,692
Miles per gallon of diesel oil .....		—	8.9	9.0	—	7.0	5.4	5.4
Total gallons of other fuel consumed .....	'000	—	178	33	23	97	—	331
Miles per gallon of other fuel .....		—	9.8	9.5	6.6	5.5	—	8.3
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000	545	1,895	1,045	3,288	12,994	37,428	57,195
Average weight carried <sup>1</sup> .....	ton	0.2	0.6	1.3	2.3	4.3	15.0	7.1
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000	7,493	43,825	16,694	40,677	157,969	1,923,409	2,190,067
Average net ton miles per truck .....		200	1,000	4,500	8,700	23,100	295,800	21,100
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000	133,655	339,758	66,412	141,252	447,218	3,417,746	4,546,041
Average capacity ton miles per truck .....		3,500	7,800	17,900	30,200	65,400	525,600	43,800
Percentage of capacity utilized .....		5.6	12.9	25.1	28.8	35.3	56.3	48.2
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000	277,011	606,785	90,167	153,808	446,186	4,354,010	5,927,967
Average gross ton miles per truck .....		7,200	14,000	24,300	32,900	65,200	669,500	57,200
Estimated annual population .....		38,514	43,449	3,716	4,678	6,840	6,503	103,700

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
20,000 lb. and under .....	'000 tons	'000	'000	tons	miles	\$'000	¢
903	11,716	15,727	1.3	17.4	10,518	66.9	
20,001-30,000 lb. .....	4,529	15,612	65,330	4.2	14.4	18,557	28.4
30,001-50,000 lb. .....	8,699	13,425	112,205	8.4	12.9	14,369	12.8
50,001 lb. and over .....	10,883	78,650	1,332,083	16.9	122.4	79,779	6.0
<b>Totals .....</b>	<b>25,014</b>	<b>119,403</b>	<b>1,525,345</b>	<b>12.8</b>	<b>61.0</b>	<b>123,223</b>	<b>8.1</b>
Private intercity							
Gross vehicle weight	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	370	34,697	20,011	0.6	54.0		
10,001-20,000 lb. .....	729	8,482	14,626	1.7	20.0		
20,001-30,000 lb. .....	2,112	8,689	40,949	4.7	19.4		
30,001 lb. and over .....	7,854	29,373	411,784	14.0	52.4		
<b>Totals .....</b>	<b>11,065</b>	<b>81,241</b>	<b>487,370</b>	<b>6.0</b>	<b>44.0</b>		

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
Live animals .....	'000 tons	'000	'000	tons	miles	\$'000	¢
60	1,065	13,588	12.8	224.2	844	6.2	
Food, feed, beverages and tobacco .....	1,818	20,229	301,618	14.9	165.9	13,234	4.4
Crude materials, inedible .....	10,796	9,387	144,506	15.4	13.4	10,920	7.6
Fabricated materials, inedible .....	5,969	24,260	388,753	16.0	65.1	29,069	7.5
End products, inedible .....	1,684	19,208	175,467	9.1	104.2	29,479	16.8
General freight .....	4,687	45,254	501,413	11.1	107.0	39,677	7.9
<b>Totals .....</b>	<b>25,014</b>	<b>119,403</b>	<b>1,525,345</b>	<b>12.8</b>	<b>61.0</b>	<b>123,223</b>	<b>8.1</b>
Private intercity							
Commodity group	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles		
Live animals .....	18	260	740	2.8	41.3		
Food, feed, beverages and tobacco .....	1,460	20,359	109,711	5.4	75.1		
Crude materials, inedible .....	4,465	5,452	68,612	12.6	15.4		
Fabricated materials, inedible .....	4,227	15,848	176,380	11.1	41.7		
End products, inedible .....	517	26,736	64,977	2.4	125.7		
General freight .....	378	12,586	66,950	5.3	177.0		
<b>Totals .....</b>	<b>11,065</b>	<b>81,241</b>	<b>487,370</b>	<b>6.0</b>	<b>44.0</b>		

**SECTION II. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS WITHIN THE PROVINCE**  
**JANUARY 1-DECEMBER 31, 1963**

**TABLE 5. All Trucks by Type of Operation**

	For hire	Private			Total	
		Intercity	Urban	Farm		
<b>Mileage:</b>						
Total mileage travelled .....	'000	122,444	242,223	251,048	44,094	659,809
Average yearly mileage per truck .....		17,700	7,700	4,700	3,500	6,400
Average distance each ton was carried .....		37.5	32.8	8.1	15.4	25.7
Percentage of total mileage travelled empty .....		30.7	72.1	62.7	65.8	60.4
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	11,026	20,123	22,236	3,530	56,915
Miles per gallon of gasoline .....		6.5	11.2	11.2	12.5	10.4
Total gallons of diesel oil consumed .....	'000	9,706	2,919	75	—	12,700
Miles per gallon of diesel oil .....		5.2	5.4	5.7	—	5.3
Total gallons of other fuel consumed .....	'000	—	185	146	—	331
Miles per gallon of other fuel .....		—	7.2	9.7	—	8.3
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	24,498	10,915	20,159	957	56,529
Average weight carried <sup>1</sup> .....	ton	10.8	5.3	1.7	1.0	5.6
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	919,324	357,806	162,602	14,750	1,454,482
Average net ton miles per truck .....		133,200	11,400	3,100	1,200	14,000
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	1,777,009	946,411	604,001	73,790	3,401,211
Average capacity ton miles per truck .....		257,500	30,100	11,400	5,900	32,800
Percentage of capacity utilized .....		51.7	37.8	26.9	20.0	42.8
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	2,240,308	1,206,453	804,790	110,855	4,362,406
Average gross ton miles per truck .....		324,700	38,300	15,200	8,900	42,100
<b>Revenue:</b>						
Total revenue .....	\$'000	88,237	—	—	—	—
Revenue per ton mile .....	¢	9.6	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	72.7	—	—	—	—
Average revenue per truck .....	\$	12,800	—	—	—	—
Estimated annual population .....		6,900	31,477	52,863	12,460	103,700

**TABLE 6. All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total	
<b>Mileage:</b>								
Total mileage travelled .....	'000	167,988	260,365	21,491	26,458	56,294	127,213	659,809
Average yearly mileage per truck .....		4,400	6,000	5,800	5,700	8,200	19,600	6,400
Average distance each ton was carried .....		13.7	22.2	16.0	12.2	11.9	32.4	25.7
Percentage of total mileage travelled empty .....		78.5	71.1	41.3	35.4	36.7	33.5	60.4
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000	10,856	21,005	2,273	3,419	7,782	11,580	56,915
Miles per gallon of gasoline .....		15.5	12.3	9.3	7.7	7.2	5.3	10.4
Total gallons of diesel oil consumed .....	'000	—	54	17	—	9	12,620	12,700
Miles per gallon of diesel oil .....		—	8.9	9.0	—	7.0	5.3	5.3
Total gallons of other fuel consumed .....	'000	—	178	33	23	97	—	331
Miles per gallon of other fuel .....		—	9.8	9.5	6.6	5.5	—	8.3
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000	545	1,894	1,045	3,288	12,975	36,782	56,529
Average weight carried <sup>1</sup> .....	ton	0.2	0.6	1.3	2.3	4.3	14.1	5.6
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000	7,493	42,111	16,694	40,169	154,901	1,193,114	1,454,482
Average net ton miles per truck .....		200	1,000	4,500	8,600	22,600	183,500	14,000
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000	130,384	327,544	66,413	133,945	436,807	2,306,118	3,401,211
Average capacity ton miles per truck .....		3,400	7,500	17,900	28,600	63,900	354,600	32,800
Percentage of capacity utilized .....		5.7	12.9	25.1	30.0	35.5	51.7	42.8
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000	270,481	586,725	90,167	147,403	436,349	2,831,281	4,362,406
Average gross ton miles per truck .....		7,000	13,500	24,300	31,500	63,800	435,400	42,100
Estimated annual population .....		38,514	43,449	3,716	4,678	6,840	6,503	103,700

<sup>1</sup> Net ton miles divided by miles travelled with load.

<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.

<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS  
JANUARY 1-DECEMBER 31, 1963

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total
'000 tons									
Newfoundland .....	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	1	1	—	—	—	—	—	1
New Brunswick .....	—	—	—	—	—	—	—	—	—
Quebec .....	11	25	36	—	—	—	11	25	36
Ontario .....	16	62	78	2	7	9	18	69	87
Manitoba .....	6	5	11	—	1	1	6	6	12
Saskatchewan .....	3	34	37	—	6	6	3	40	43
Alberta .....	442	314	756	104	71	175	546	385	931
Yukon and Northwest Territories .....	4	4	8	24	85	109	28	89	117
United States .....	67	108	175	16	69	85	83	177	260
<b>Totals .....</b>	<b>549</b>	<b>553</b>	<b>1,102</b>	<b>146</b>	<b>239</b>	<b>385</b>	<b>695</b>	<b>792</b>	<b>1,487</b>

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals .....	4	280	5,596	20.0	1,238.0	218	3.9
Food, feed, beverages and tobacco .....	219	11,060	200,486	18.1	916.7	4,931	2.5
Crude materials, inedible .....	15	240	3,139	13.0	213.2	261	8.3
Fabricated materials, inedible .....	451	8,345	157,217	18.8	348.3	5,258	3.3
End products, inedible .....	78	8,386	110,377	13.2	1,422.8	16,335	14.8
General freight .....	335	17,076	309,552	18.1	924.1	6,911	2.2
<b>Totals .....</b>	<b>1,102</b>	<b>45,387</b>	<b>786,367</b>	<b>17.3</b>	<b>713.6</b>	<b>33,914</b>	<b>4.3</b>
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals .....	—	—	—	—	—	—	—
Food, feed, beverages and tobacco .....	35	1,834	29,689	16.2	840.6		
Crude materials, inedible .....	42	579	11,989	20.7	285.2		
Fabricated materials, inedible .....	170	2,612	41,897	16.0	246.6		
End products, inedible .....	87	8,705	35,805	4.1	412.8		
General freight .....	51	2,464	35,141	14.3	689.6		
<b>Totals .....</b>	<b>385</b>	<b>16,194</b>	<b>154,521</b>	<b>9.5</b>	<b>401.4</b>		

## APPENDIX

Type of operation	A. Population							Total
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over		
Estimated British Columbia truck population in 1963								
For hire .....	101	597	373	570	1,851	3,408	1	6,900
Private:								
Intercity .....	11,050	15,701	619	937	1,530	1,640	1	31,477
Urban .....	22,627	21,029	2,229	2,523	3,020	1,435	1	52,863
Farm .....	4,736	6,122	495	648	439	20	1	12,460
<b>Totals .....</b>	<b>38,514</b>	<b>43,449</b>	<b>3,716</b>	<b>4,678</b>	<b>6,840</b>	<b>6,503</b>	<b>1</b>	<b>103,700</b>
B. Survey Response								
	Total number of trucks selected in samples	Number of questionnaires returned completed	Number of sampled trucks reported not in use during survey week	Number of questionnaires not returned or returned incomplete and unusable				
For hire .....	2,325	1,161		467				697
Private:								
Intercity .....	3,411	1,273		948				1,190
Urban .....	4,945	1,811		1,443				1,691
Farm .....	1,021	371		299				351
<b>Totals .....</b>	<b>11,702</b>	<b>4,616</b>	<b>3,157</b>					<b>3,929</b>



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**MOTOR TRANSPORT TRAFFIC  
PROVINCE OF BRITISH COLUMBIA**

**1964**

*Published by Authority of*  
The Minister of Trade and Commerce



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PROVINCE OF BRITISH COLUMBIA  
JANUARY 1-DECEMBER 31, 1964

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

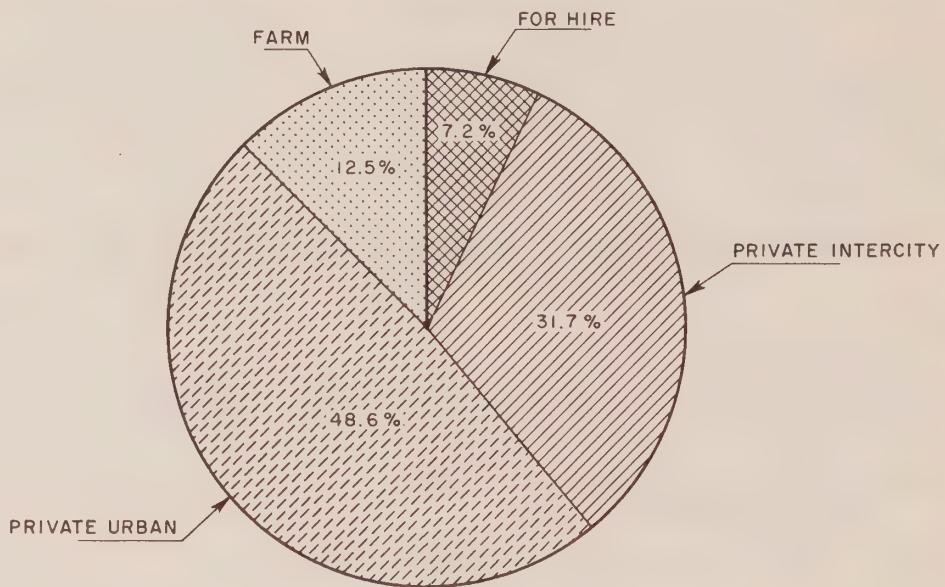
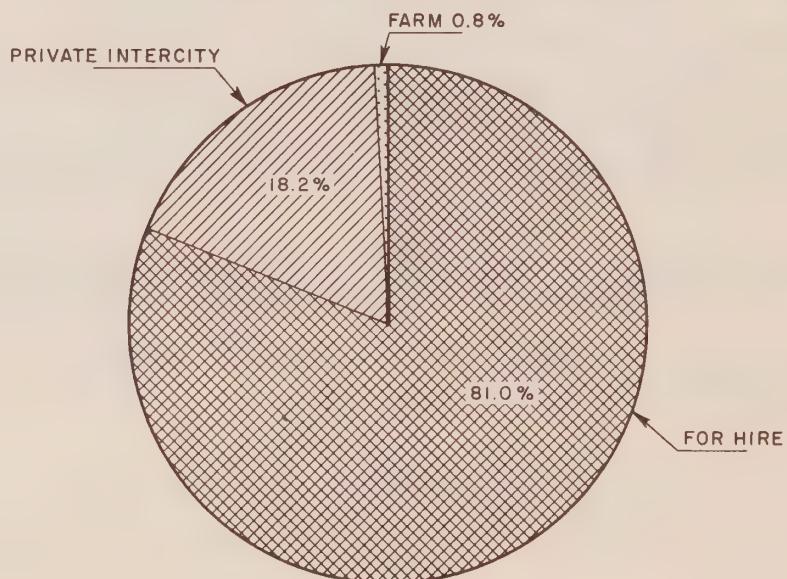


CHART-2

NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1964 annual report of motor transport traffic in the Province of British Columbia is based upon a sample of approximately 6 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

For hire trucks ("E", "G", "H" and "J" carriers) are registered separately in British Columbia while a restricted "F" licence is available to

farmers. Vehicles falling in these categories therefore can be easily allocated to the appropriate class. However, for other trucks it is necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" or "farm".

In this report vehicles have been classified into the four functional categories as follows:

For hire	- "E", "G", "H" and "J" carrier licensed vehicles operated in intercity service and/or urban areas.
Private intercity	- private non-farm vehicles operating beyond urban areas.
Private urban	- private vehicles operating only within urban areas.
Farm	- "F" licensed vehicles and other private vehicles owned and operated by farmers.

Beginning in 1964 the only data recorded for vehicles performing **urban** or **local** operations, regardless of category, are **miles travelled** and **gallons of fuel used** and the **estimated population**. For this reason the 1964 figures shown under various traffic headings are not entirely comparable to the statistics published for 1963.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", Catalogue No. 53-207, for 1957 to 1963.

### Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A total truck population figure which remains constant for all four quarterly surveys is determined. This constant population is the peak figure of the previous year's quarterly sample population estimates. Fortunately an exact count of for hire licensed vehicles is available each quarter so it is necessary to estimate only the private truck population. This is done by multiplying the sample size in each quarter by the inverse of the sample selection ratios.
2. The constant population has to be broken down into gross vehicle weight groups and functions. The gross vehicle weight group distribution of the for hire constant truck population is the actual distribution recorded for that population. It is only necessary to multiply the sample of

private trucks in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly private truck populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is applied to the constant private truck population.

The private truck population then has to be distributed by function. This is done by using the average distribution obtained from the previous year's completed questionnaires. Prior to 1959 the distribution by function was determined from completed questionnaires for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For private intercity, private urban and most farm vehicles this can only be done from completed questionnaires as they do not have distinctive licence categories. For hire vehicles can be

identified immediately by their "E", "G", "H" and "J" licences while some farm vehicles obtain an "F" licence.

4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
6. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

### Review of Survey Results

The estimated population of trucks performing transportation services in British Columbia during the year rose 4.4 per cent to 108,300 from 103,700 in 1963. Of these 7,800 or 7.2 per cent were for hire trucks; 34,401 or 31.7 per cent were private intercity vehicles; 52,614 or 48.6 per cent were private vehicles operating wholly within urban areas; and 13,485 or 12.5 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most instances an insufficient number of vehicles were chosen in these categories to produce reliable statistics. However, it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

#### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by British Columbia registered trucks.

Although comprising only 7.2 per cent of British Columbia's truck population for hire vehicles accounted for 81 per cent of the total net ton miles (excluding the urban portion) and 63.8 per cent of the total tons of goods (excluding urban) carried during 1964. This results from the high average yearly mileage of these trucks, 25,800 miles as compared with 7,300 miles for all trucks, and from the heavy average load carried of 16.1 tons compared to 10.8 tons for all trucks. Since more than three quarters of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire

class also explains the low estimate of miles per gallon of gasoline 5.6 compared with 9.5 for all trucks.

Some trucks in British Columbia under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 20 per cent of the total mileage travelled by British Columbia registered trucks.

#### Section II: Traffic Within the Province

This section presents estimates of traffic performed by British Columbia registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 60 per cent and private intercity 70 per cent of their total net ton miles inside British Columbia.

#### Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing over one half of the total net ton miles performed and over one third of the revenue earned by these vehicles. Over three quarters of the total tons of goods carried in this type of traffic by British Columbia registered for hire trucks was transported to or from Alberta or the United States.

#### Appendix

The appendix contains a summary of the estimated truck population in 1964 by gross vehicle weight group.

**SECTION I. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE**  
**JANUARY 1-DECEMBER 31, 1964**

**TABLE 1. Total Operations (Intercity, Rural and Urban) of All Trucks**

	For hire	Private			Total
		Intercity	Urban	Farm	
<b>Mileage:</b>					
Total mileage travelled .....	'000	201,592	272,900	252,150	61,643
Average yearly mileage per truck .....		25,800	7,900	4,800	4,600
Revenue per mile (total mileage travelled) .....	¢	49.0	—	—	—
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	'000	17,429	22,074	24,133	5,466
Miles per gallon of gasoline .....		5.6	11.3	10.4	11.3
Total gallons of diesel oil consumed .....	'000	20,314	4,041	191	—
Miles per gallon of diesel oil .....		5.1	4.9	4.4	—
Total gallons of other fuel consumed .....	'000	92	343	90	—
Miles per gallon of other fuel .....		2.2	10.9	4.5	—
Estimated annual population .....		7,800	34,401	52,614	13,485
					108,300

**TABLE 1 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks**

	For hire	Private			Total
		Intercity	Farm		
<b>Mileage:</b>					
Total mileage travelled .....	'000	201,592	272,900	61,643	536,135
Percentage of total mileage travelled empty .....		40.6	69.4	71.1	58.7
<b>Weight of goods carried:</b>					
Total tons of goods carried .....	'000	16,415	8,061	1,243	25,719
Average weight carried <sup>1</sup> .....	ton	16.1	5.2	1.0	10.8
Average distance each ton was carried .....		117.6	54.0	14.9	92.7
<b>Net ton miles:</b>					
Total net ton miles performed .....	'000	1,930,863	435,058	18,532	2,384,453
Average net ton miles per truck .....		247,500	12,600	1,400	42,800
<b>Capacity ton miles:</b>					
Total capacity ton miles <sup>2</sup> .....	'000	2,979,172	1,050,120	98,757	4,128,049
Average capacity ton miles per truck .....		381,900	30,500	7,300	74,100
Percentage of capacity utilized .....		64.8	41.4	18.8	57.8
<b>Gross ton miles:</b>					
Total gross ton miles <sup>3</sup> .....	'000	4,093,582	1,325,309	149,044	5,567,935
Average gross ton miles per truck .....		524,800	38,500	11,100	100,000
<b>Revenue:</b>					
Total revenue .....	\$'000	98,773	—	—	—
Revenue per ton mile .....	¢	5.1	—	—	—
Average revenue per truck .....	\$	12,700	—	—	—
Estimated annual population .....		7,800	34,401	13,485	55,686

See footnotes at end of Table 6 A, page 11.

**Note:** Table 1 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 1 and Table 1 A see page 5, paragraph 6 of text.

TABLE 2. Total Operations (Intercity, Rural and Urban) of All Trucks  
by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled..... '000	182,767	283,467	24,758	26,413	60,052	210,828	788,285
Average yearly mileage per truck .....	4,900	5,900	6,300	5,400	8,700	29,300	7,300
<b>Fuel:</b>							
Total gallons of gasoline consumed .. '000	12,952	22,372	2,789	3,375	9,403	18,211	69,102
Miles per gallon of gasoline.....	14.0	12.6	8.8	7.8	6.3	4.7	9.5
Total gallons of diesel oil consumed .. '000	—	—	—	—	—	24,546	24,546
Miles per gallon of diesel oil.....	—	—	—	—	—	5.1	5.1
Total gallons of other fuel consumed .. '000	64	198	22	32	100	109	525
Miles per gallon of other fuel.....	17.6	9.6	11.7	7.8	5.6	2.5	8.3
Estimated annual population .....	37,419	47,992	3,929	4,890	6,883	7,187	108,300

TABLE 2 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks  
by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .. '000	106,584	156,601	15,988	15,370	42,462	199,130	536,135
Percentage of total mileage travelled empty .....	70.6	82.4	68.6	71.0	54.2	33.0	58.7
<b>Weight of goods carried:</b>							
Total tons of goods carried .. '000	225	457	300	698	3,234	20,805	25,719
Average weight carried <sup>1</sup> ..... ton	0.8	0.5	1.4	2.9	5.0	16.7	10.8
Average distance each ton was carried .....	110.5	27.3	23.4	18.6	30.2	107.2	92.7
<b>Net ton miles:</b>							
Total net ton miles performed .. '000	24,873	12,481	7,016	12,988	97,507	2,229,588	2,384,453
Average net ton miles per truck.....	1,400	500	3,500	5,700	24,900	381,500	42,800
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .. '000	91,020	167,031	30,586	53,678	252,490	3,533,244	4,128,049
Average capacity ton miles per truck.....	5,300	6,800	15,400	23,500	64,400	604,600	74,100
Percentage of capacity utilized.....	27.3	7.5	22.9	24.2	38.6	63.1	57.8
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .. '000	178,237	285,649	40,797	54,917	252,858	4,755,477	5,567,935
Average gross ton miles per truck .....	10,300	11,700	20,600	24,000	64,500	813,700	100,000
Estimated annual population .....	17,240	24,415	1,981	2,286	3,920	5,844	55,686

See footnotes at end of Table 6A, page 11.

Note: Table 2 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 2 and Table 2 A see page 5, paragraph 6 of text.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under .....	43	454	850	1.9	20.2	602	70.9
20,001-30,000 lb. .....	1,895	8,859	46,337	5.2	24.4	9,152	19.8
30,001-50,000 " .....	3,999	11,235	109,481	9.7	27.4	10,561	9.6
50,001 lb. and over .....	10,478	99,195	1,774,195	17.9	169.3	78,458	4.4
<b>Totals .....</b>	<b>16,415</b>	<b>119,743</b>	<b>1,930,863</b>	<b>16.1</b>	<b>117.6</b>	<b>98,773</b>	<b>5.1</b>
Private intercity							
Gross vehicle weight	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	265	46,076	32,158	0.7	121.5		
10,001-20,000 lb. .....	310	4,863	10,641	2.2	34.3		
20,001-30,000 " .....	1,172	9,745	46,980	4.8	40.1		
30,001 lb. and over .....	6,314	22,914	345,279	15.1	54.7		
<b>Totals .....</b>	<b>8,061</b>	<b>83,598</b>	<b>435,058</b>	<b>5.2</b>	<b>54.0</b>		

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals .....	89	1,456	11,344	7.8	126.9	1,609	14.2
Food, feed, beverages and tobacco .....	1,365	24,035	385,506	16.0	282.5	13,894	3.6
Crude materials, inedible .....	7,146	10,651	188,428	17.7	26.4	10,038	5.3
Fabricated materials, inedible .....	5,914	24,573	447,253	18.2	75.6	24,576	5.5
End products, inedible .....	488	14,188	177,095	12.5	363.1	12,275	6.9
General freight .....	1,413	44,840	721,237	16.1	510.5	36,381	5.0
<b>Totals .....</b>	<b>16,415</b>	<b>119,743</b>	<b>1,930,863</b>	<b>16.1</b>	<b>117.6</b>	<b>98,773</b>	<b>5.1</b>
Private intercity							
Commodity group	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles		
Live animals .....	2	42	148	3.5	80.0		
Food, feed, beverages and tobacco .....	1,153	27,311	71,638	2.6	62.1		
Crude materials, inedible .....	4,187	10,172	126,879	12.5	30.3		
Fabricated materials, inedible .....	2,134	16,342	135,557	8.3	63.5		
End products, inedible .....	360	23,440	47,016	2.0	130.6		
General freight .....	225	6,291	53,820	8.6	239.3		
<b>Totals .....</b>	<b>8,061</b>	<b>83,598</b>	<b>435,058</b>	<b>5.2</b>	<b>54.0</b>		

**SECTION II. TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS WITHIN THE PROVINCE**  
**JANUARY 1-DECEMBER 31, 1964**

**TABLE 5. Total Operations (Intercity, Rural and Urban) of All Trucks**

	For hire	Private			Total
		Intercity	Urban	Farm	
<b>Mileage:</b>					
Total mileage travelled .....	'000	151,889	250,121	252,150	61,643
Average yearly mileage per truck .....		19,500	7,300	4,800	4,600
Revenue per mile (total mileage travelled) .....	¢	47.6	—	—	—
<b>Fuel:</b>					
Total gallons of gasoline consumed .....	'000	15,641	20,626	24,133	5,466
Miles per gallon of gasoline .....		5.5	11.3	10.4	11.3
Total gallons of diesel oil consumed .....	'000	12,633	2,752	191	—
Miles per gallon of diesel oil .....		5.2	4.7	4.4	—
Total gallons of other fuel consumed .....	'000	—	308	90	—
Miles per gallon of other fuel .....		—	11.6	4.5	—
Estimated annual population .....		7,800	34,401	52,614	13,485
					108,300

**TABLE 5 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks**

	For hire	Private		Total
		Intercity	Farm	
<b>Mileage:</b>				
Total mileage travelled .....	'000	151,889	250,121	61,643
Percentage of total mileage travelled empty .....		51.2	73.8	71.1
<b>Weight of goods carried:</b>				
Total tons of goods carried .....	'000	16,146	7,769	1,243
Average weight carried <sup>1</sup> .....	ton	15.5	4.6	1.0
Average distance each ton was carried .....		71.2	39.0	14.9
<b>Net ton miles:</b>				
Total net ton miles performed .....	'000	1,149,303	302,814	18,532
Average net ton miles per truck .....		147,300	8,800	1,400
<b>Capacity ton miles:</b>				
Total capacity ton miles <sup>2</sup> .....	'000	2,025,598	835,125	98,757
Average capacity ton miles per truck .....		259,700	24,300	7,300
Percentage of capacity utilized .....		56.7	36.3	18.8
<b>Gross ton miles:</b>				
Total gross ton miles <sup>3</sup> .....	'000	2,515,243	1,045,972	149,044
Average gross ton miles per truck .....		322,500	30,400	11,100
<b>Revenue:</b>				
Total revenue .....	\$'000	72,313	—	—
Revenue per ton mile .....	¢	6.3	—	—
Average revenue per truck .....	\$	9,300	—	—
Estimated annual population .....		7,800	34,401	13,485
				55,686

See footnotes at end of Table 6 A, page 11.

Note: Table 5 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 5 and Table 5 A see page 5, paragraph 6 of text.

**TABLE 6. Total Operations (Intercity, Rural and Urban) of All Trucks  
by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total	
<b>Mileage:</b>								
Total mileage travelled .....	'000	172,567	281,986	24,704	25,501	58,081	152,964	715,803
Average yearly mileage per truck .....		4,600	5,900	6,300	5,200	8,400	21,300	6,600
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000	12,370	22,264	2,789	3,294	9,053	16,096	65,866
Miles per gallon of gasoline .....		13.9	12.6	8.8	7.7	6.4	4.6	9.6
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	15,576	15,576
Miles per gallon of diesel oil .....		—	—	—	—	—	5.1	5.1
Total gallons of other fuel consumed .....	'000	64	198	22	32	65	17	398
Miles per gallon of other fuel .....		17.6	9.6	11.7	7.8	5.8	4.0	10.0
Estimated annual population .....		37,419	47,992	3,929	4,890	6,883	7,187	108,300

**TABLE 6 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks  
by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total	
<b>Mileage:</b>								
Total mileage travelled .....	'000	96,384	155,119	15,935	14,458	40,491	141,266	463,653
Percentage of total mileage travelled empty		77.7	82.2	68.5	72.4	55.5	42.4	66.0
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000	195	457	300	695	3,208	20,303	25,158
Average weight carried <sup>1</sup> .....	ton	0.3	0.5	1.4	3.1	5.0	16.5	9.3
Average distance each ton was carried .....		35.3	27.3	23.4	17.8	28.1	66.1	58.5
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000	6,892	12,481	7,016	12,392	90,195	1,341,673	1,470,649
Average net ton miles per truck .....		400	500	3,500	5,400	23,000	229,600	26,400
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000	70,563	165,702	30,368	48,511	235,980	2,408,356	2,959,480
Average capacity ton miles per truck .....		4,100	6,800	15,300	21,200	60,200	412,100	53,100
Percentage of capacity utilized .....		9.8	7.5	23.1	25.5	38.2	55.7	49.7
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000	143,404	283,098	40,599	50,416	235,888	2,956,854	3,710,259
Average gross ton miles per truck .....		8,300	11,600	20,500	22,100	60,200	506,000	66,600
Estimated annual population .....		17,240	24,415	1,981	2,286	3,920	5,844	55,686

<sup>1</sup> Net ton miles divided by miles travelled with load.

<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.

<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

Note: Table 6 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 6 and Table 6 A see page 5, paragraph 6 of text.

SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY BRITISH COLUMBIA REGISTERED TRUCKS  
JANUARY 1-DECEMBER 31, 1964

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total	Into British Columbia	Out of British Columbia	Total
'000 tons									
Newfoundland .....	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-
New Brunswick .....	-	-	-	-	-	-	-	-	-
Quebec .....	11	17	28	-	-	-	11	17	28
Ontario .....	75	107	182	-	-	-	75	107	182
Manitoba .....	14	17	31	-	-	-	14	17	31
Saskatchewan .....	7	7	14	3	4	7	10	11	21
Alberta .....	309	274	583	86	67	153	395	341	736
Yukon and Northwest Territories .....	-	21	21	21	86	107	21	107	128
United States .....	87	185	272	22	30	52	109	215	324
Totals .....	503	628	1,131	132	187	319	635	815	1,450

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals .....	-	-	-	-	-	-	-
Food, feed, beverages and tobacco .....	171	11,388	199,983	17.6	1,170.4	4,244	2.1
Crude materials, inedible .....	103	2,123	27,166	12.8	263.8	838	3.1
Fabricated materials, inedible .....	292	5,599	104,348	18.6	356.5	3,448	3.3
End products, inedible .....	75	8,183	115,388	14.1	1,545.1	7,381	6.4
General freight .....	490	30,537	543,172	17.8	1,108.5	20,151	3.7
Totals .....	1,131	57,830	990,057	17.1	875.2	36,062	3.6
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals .....	-	-	-	-	-	-	-
Food, feed, beverages and tobacco .....	37	1,378	9,965	7.2	269.3		
Crude materials, inedible .....	82	3,800	29,063	7.6	354.1		
Fabricated materials, inedible .....	134	1,883	28,242	15.0	209.9		
End products, inedible .....	24	1,876	11,430	6.1	482.4		
General freight .....	42	1,462	23,738	16.2	571.7		
Totals .....	319	10,399	102,438	9.9	321.3		

**APPENDIX**  
**Estimated British Columbia Truck Population**

Type of operation	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
For hire .....	125	691	486	610	1,747	4,141	7,800
Private:							
Intercity .....	12,678	16,758	610	989	1,687	1,679	34,401
Urban .....	20,179	23,577	1,948	2,604	2,963	1,343	52,614
Farm .....	4,437	6,966	885	687	486	24	13,485
<b>Totals .....</b>	<b>37,419</b>	<b>47,992</b>	<b>3,929</b>	<b>4,890</b>	<b>6,883</b>	<b>7,187</b>	<b>108,300</b>















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